

RD-A150 378

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

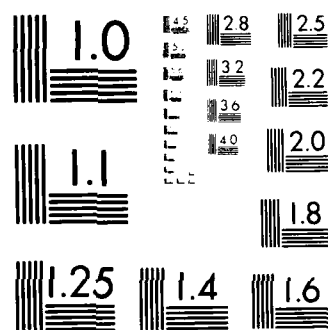
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A 10x10 grid of squares. The top-left corner contains a small cluster of white squares, while the rest of the grid is black.



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PHOTOGRAPH THIS SHEET

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INVENTORY

AD-A150 378

DTIC ACCESSION NUMBER

SMOS, China Lake, Ca.

DOCUMENT IDENTIFICATION

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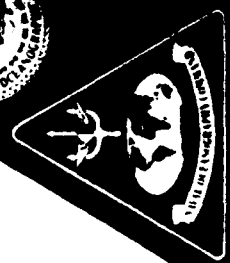
SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

611 100

JOB NO.	72006	DATE	August 1984
STATION:	#93104	China Lake, CA	
PERIOD:	HOURLY	1/73-12/82	
	DAILY	4/45-12/92	

PREPARED BY
NAVAL OCEANOGRAPHY
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NSTL MS 39529



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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

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1. REPORT NUMBER	2. GOVT ACCESSION NO.	3. RECIPIENT'S CATALOG NUMBER
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		6. PERFORMING ORG. REPORT NUMBER
7. AUTHOR(s) NA		8. CONTRACT OR GRANT NUMBER(s)
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18. SUPPLEMENTARY NOTES		
19. KEY WORDS (Continue on reverse side if necessary and identify by block number) Climatology, surface wind, temperature, precipitation, ceiling, visibility, relative humidity, station pressure, extreme temperatures, sea level pressure, daily temperature, weather conditions, monthly climatology, coastal region, snow depth, and cloud cover		
20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This data report consists of a six part statistical summary of surface weather observations. The six parts are: Part A - Weather Conditions/ Atmospheric Phenomena, Part B - Precipitation/Snowfall/Snow Depth, Part C - Surface Winds, Part D - Ceiling versus Visibility/Sky Cover, Part E - Psychrometric Summaries, Part F - Station Pressure/Sea Level Pressure		

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SUMMARY OF METEOROLOGICAL OBSERVATIONS, SURFACE

This update includes the period of record (POR) 1973 through 1982, with all available data through 1982 for extreme values.

This summary should be retained by individual stations along with the SMOS prepared in 1973. The retention of these summaries will provide the most comprehensive climatological file for your station.

DESCRIPTION: Preceding each section is a brief description of the data comprising each part of the summary and the manner of presentation. Tabulations are prepared from 3-hourly and daily observations recorded by stations operated by the U.S. Navy and U.S. Marine Corps. 3-hourly observations are defined as these record or record-special observations recorded at scheduled 3-hourly intervals. Daily observations are selected from all data recorded on reporting forms and combined into Summary of the Day observations (prepared from record-special, local, summary of the day, remarks, etc.).

COMMENT: All observations summarized in this tabulation have been computer edited for consistency and reasonableness prior to, or during the processing stage. Efforts to improve the quality of the data after summarization are expensive, i.e., the improvement might consist of the elimination of one suspect or erroneous value. The cost of preparing "perfect" copy can be prohibitive due to the handwork involved. Suspect cases will occur infrequently, but users should not disregard extreme values completely as some could be valid. Questionable values will most likely be single occurrences shown by a percentage frequency of "0". (This value indicates a percent less than ".05," which, in most cases, reflects a single observation.) Since most stations summarized now have in excess of 10,000 3-hourly observations, the occurrence of an occasional spurious value should not in itself be considered significant. Every effort is made by this office to maintain a high degree of accuracy and reliability in these tables, and the Naval Oceanography Command Detachment (NOCDD), Asheville, N.C. welcomes your comment and criticisms.

STATION NO ON SUMMARY		STATION NAME		LATITUDE		LONGITUDE		STATION ELEV (FT)		CALL SIGN		WMO NUMBER	
93104		China Lake, California		35°41'N		117°41'W		2283		KNID		72384	
STATION LOCATION AND INSTRUMENTATION HISTORY													
NUMBER OF STATION LOCATION	GEOGRAPHICAL LOCATION & NAME	TYPE OF STATION	AT THIS LOCATION		LATITUDE	LONGITUDE	ELEVATION ABOVE ASL		SBS PER DAY				
			FROM	TO			FEET	TYPE BAROMETER					
1.	Weather service office, second deck of hangar #1	Navy	1945	1958	35°41'N	117°41'W	2234	Mercurial					
2.	Weather service office	"	1958	1959	"	"	2233	"					
3.	Relocated Weather service office	"	1959	1969	"	"	2238	"					
4.	" " "	"	1969		"	"	"	"					
1a.	Weather service office	"	1964		"	"	"	Aneroid					

NUMBER OF LOCATION	DATE OF CHANGE	SURFACE WIND EQUIPMENT INFORMATION				REMARKS ADDITIONAL EQUIPMENT OR REASON FOR CHANGE
		LOCATION	TYPE OF TRANSMITTER	TYPE OF RECORDER	HT ABOVE GROUND	
1.	1949	Roof of hangar #1	Double register Selsyn		68'	1. Barograph
1a.	1949	Roof of control tower		Triple	86'	2. Hygrothermograph
2a.	1958	Roof of control tower (replacement for selsyn)	UNQ-5	RD-108	86'	3. Theodolite
3a.	1959	Five hundred feet from the apex of runways 21 and 14	UNQ-5	RRD-108	18'	4. Thermoscreen
						5. Maximum and minimum thermometer
						6. Digital thermometer

PART A

WEATHER CONDITIONS

This summary is a percentage frequency occurrence of various atmospheric phenomena and obstructions to vision, derived from 3-hourly observations, and is presented in three tables as follows:

1. By month and annual, all hours and years combined.
2. By month and annual, all hours and years combined, by wind direction.
3. By month, all years combined, by standard 3-hour groups.

Occurrences of the various phenomena included in each category on the forms are listed below:

Thunderstorms - All reported occurrences of thunderstorm, tornado, and waterspout.

Rain and/or drizzle - All liquid precipitation, falling to the ground, not freezing.

Freezing rain and/or freezing drizzle (glaze) - Precipitation falling in liquid form, but freezing on contact with an unheated surface.

Snow and/or sleet - Included are snow, sleet, snow pellets (soft hail), snow grains, and ice crystals.

Hail Occurrences of hail and small hail are included.

Percentage of observations with precipitation - Included in this category are the observations when one or more of the above phenomena occurred. Since more than one type of precipitation may be reported in the same observation, the sums of the individual categories may exceed the total columns.

Fog - Included are fog, ice fog, and ground fog.

Smoke and/or haze - Occurrences of smoke, haze, or combinations of smoke and haze are included.

Blowing snow - Occurrences of blowing snow (also drifting snow when reported from non-WBAN sources.)

Dust and/or sand - Included are blowing dust, blowing sand, and dust.

blowing spray - This item if reported, is not shown in a separate category on this form but is included in the computation Percentage of Observations with Obstructions to Vision.

Percentage of observations with obstructions to vision - Included in this category are the observations when one or more of the above obstructions to vision occurred. Since more than one type of obstruction may be reported in the same observation, the sums of the individual categories may exceed the percentage total columns. Also, although precipitation may reduce visibility, it is not considered an obstruction to vision for purposes of this summary; therefore, the percentage total of obstructions to vision need not reflect the total observations with reduced visibility.

NOTE: The total number of observations may vary among tables within the same month and period. Percentages may not always equal 100.0 due to rounding practices.

PART A

ATMOSPHERIC PHENOMENA

This summary is a presentation of the percentage of days with occurrences of various atmospheric phenomena. These data are obtained from all recorded information on the reporting forms and combined into a daily observation.

The descriptions of the phenomena in the Weather Conditions Summary above also apply for the categories summarized in these tabulations. However, it should be noted that in this summary the columns headed "% OF OBS WITH PRECIP" and "% OF OBS WITH OBST TO VISION" show the percentage of days rather than percentage of observations. Since more than one type of precipitation or more than one type of obstruction may occur in the same daily observation, the sum of the values in the individual columns may not equal the total columns.

This presentation is by month with annual totals, and is prepared with all years combined.

NOTE: A day with rain and/or drizzle was not separately reported in WPM data prior to January 1949. Therefore percentages in this column are restricted to the period January 1949 and later.

A day with dust and/or sand was punched and included in this summary only when visibility was less than $5/8$ mile.

Percentage Frequency of Wind Direction vs. Weather Conditions - This tabulation is derived from 3-hourly observations and is presented by month and annual, all hours and years combined. The main body of the Summary consists of weather conditions (horizontally) and wind directions (vertically) to 16 compass points (plus calm). Column totals show the number of observations. "% Total" indicates percentage frequency of occurrences.

MONTH

NAVWEASERVCOM

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一
 二
 三
 四
 五

NAVWEASERVCOM

STATION	STATION NAME	YEARS	REMARKS
1	1	1	1

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STATION NAME

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STAY IN PAGE

YEARS

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WEATHER CONDITIONS

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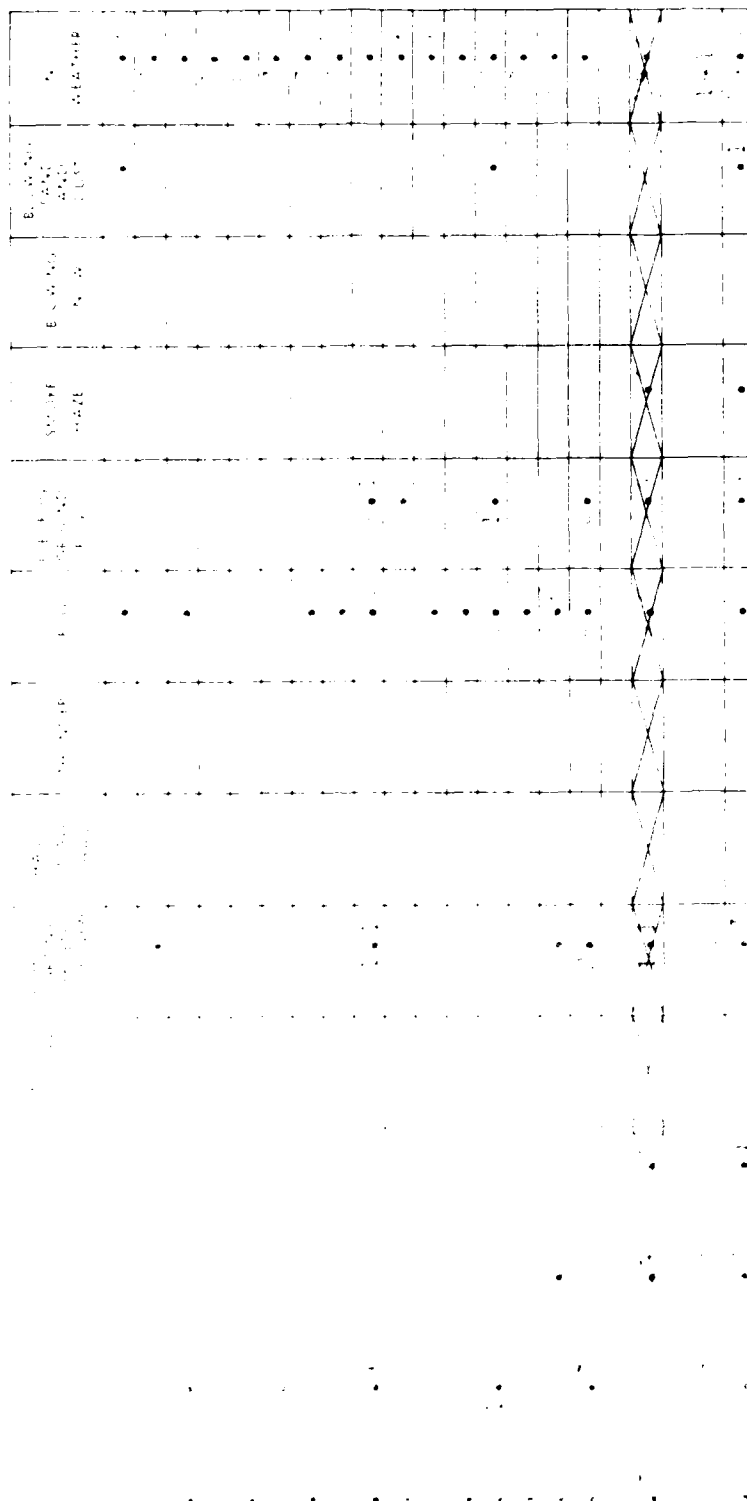
WEATHER CONDITIONS

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WEATHER CONDITIONS

MONTH	HOURS (LST)	THUNDER STORMS	RAIN AND OR DRIZZLE	FREEZING RAIN & OR DRIZZLE	SNOW AND OR SLEET	HAIL	% OF OBS WITH PRECIP.	FOG	SMOKE AND OR HAZE	BLOWING SNOW	DUST AND OR SAND	% OF OBS WITH OBST TO VISION	TOTAL NO OF OBS
TOTALS													

STAGE FREQUENCY OF WIND DIRECTION AND WEATHER CONDITIONS



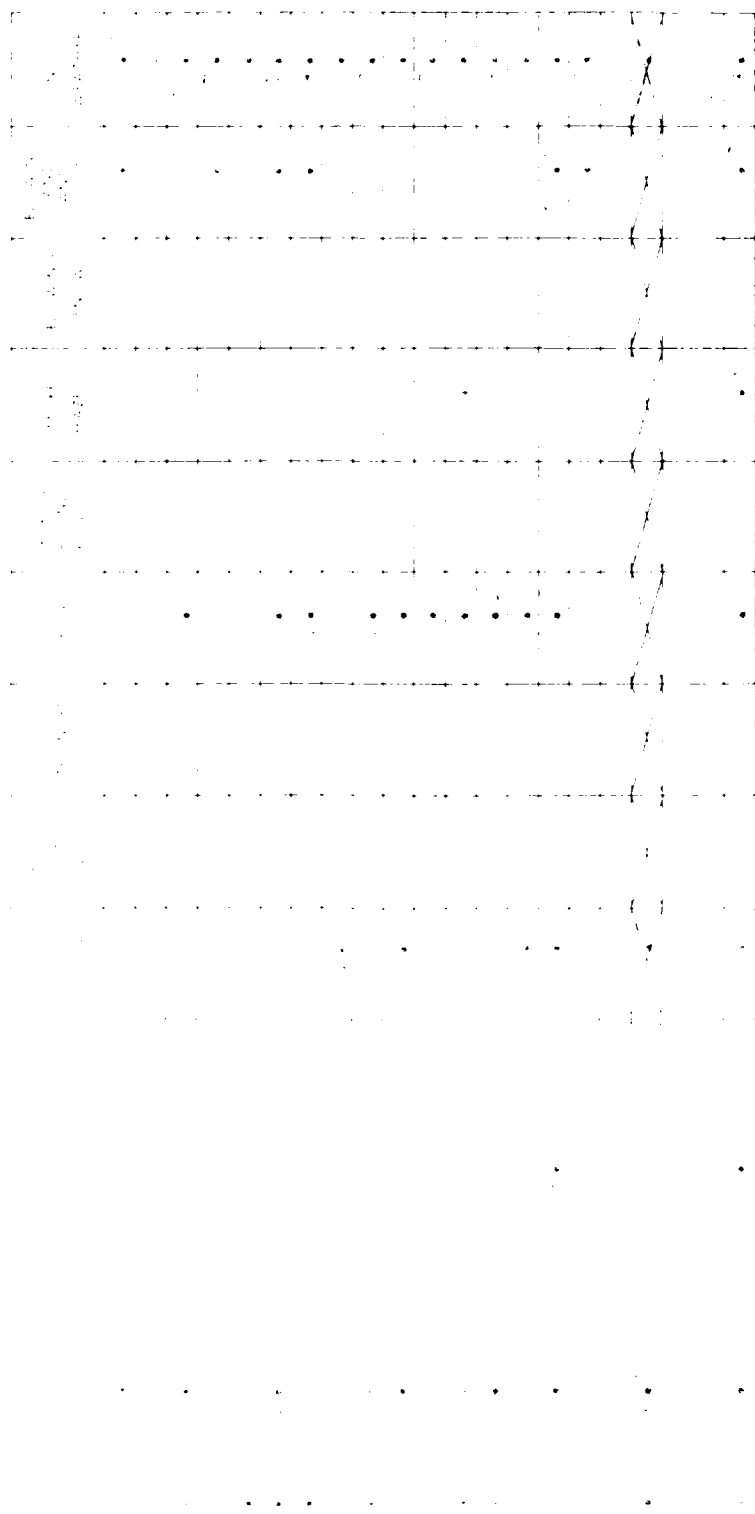
TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS

WIND DIRECTION	WIND SPEED	WIND FORCE	WIND STATE	WIND TYPE	WIND CLASS	WIND EFFECT
0	0	0	0	0	0	0
1	1	1	1	1	1	1
2	2	2	2	2	2	2
3	3	3	3	3	3	3
4	4	4	4	4	4	4
5	5	5	5	5	5	5
6	6	6	6	6	6	6
7	7	7	7	7	7	7
8	8	8	8	8	8	8
9	9	9	9	9	9	9
10	10	10	10	10	10	10
11	11	11	11	11	11	11
12	12	12	12	12	12	12
13	13	13	13	13	13	13
14	14	14	14	14	14	14
15	15	15	15	15	15	15
16	16	16	16	16	16	16
17	17	17	17	17	17	17
18	18	18	18	18	18	18
19	19	19	19	19	19	19
20	20	20	20	20	20	20
21	21	21	21	21	21	21
22	22	22	22	22	22	22
23	23	23	23	23	23	23
24	24	24	24	24	24	24
25	25	25	25	25	25	25
26	26	26	26	26	26	26
27	27	27	27	27	27	27
28	28	28	28	28	28	28
29	29	29	29	29	29	29
30	30	30	30	30	30	30
31	31	31	31	31	31	31
32	32	32	32	32	32	32
33	33	33	33	33	33	33
34	34	34	34	34	34	34
35	35	35	35	35	35	35
36	36	36	36	36	36	36
37	37	37	37	37	37	37
38	38	38	38	38	38	38
39	39	39	39	39	39	39
40	40	40	40	40	40	40
41	41	41	41	41	41	41
42	42	42	42	42	42	42
43	43	43	43	43	43	43
44	44	44	44	44	44	44
45	45	45	45	45	45	45
46	46	46	46	46	46	46
47	47	47	47	47	47	47
48	48	48	48	48	48	48
49	49	49	49	49	49	49
50	50	50	50	50	50	50
51	51	51	51	51	51	51
52	52	52	52	52	52	52
53	53	53	53	53	53	53
54	54	54	54	54	54	54
55	55	55	55	55	55	55
56	56	56	56	56	56	56
57	57	57	57	57	57	57
58	58	58	58	58	58	58
59	59	59	59	59	59	59
60	60	60	60	60	60	60
61	61	61	61	61	61	61
62	62	62	62	62	62	62
63	63	63	63	63	63	63
64	64	64	64	64	64	64
65	65	65	65	65	65	65
66	66	66	66	66	66	66
67	67	67	67	67	67	67
68	68	68	68	68	68	68
69	69	69	69	69	69	69
70	70	70	70	70	70	70
71	71	71	71	71	71	71
72	72	72	72	72	72	72
73	73	73	73	73	73	73
74	74	74	74	74	74	74
75	75	75	75	75	75	75
76	76	76	76	76	76	76
77	77	77	77	77	77	77
78	78	78	78	78	78	78
79	79	79	79	79	79	79
80	80	80	80	80	80	80
81	81	81	81	81	81	81
82	82	82	82	82	82	82
83	83	83	83	83	83	83
84	84	84	84	84	84	84
85	85	85	85	85	85	85
86	86	86	86	86	86	86
87	87	87	87	87	87	87
88	88	88	88	88	88	88
89	89	89	89	89	89	89
90	90	90	90	90	90	90
91	91	91	91	91	91	91
92	92	92	92	92	92	92
93	93	93	93	93	93	93
94	94	94	94	94	94	94
95	95	95	95	95	95	95
96	96	96	96	96	96	96
97	97	97	97	97	97	97
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99	99	99	99	99	99	99
100	100	100	100	100	100	100

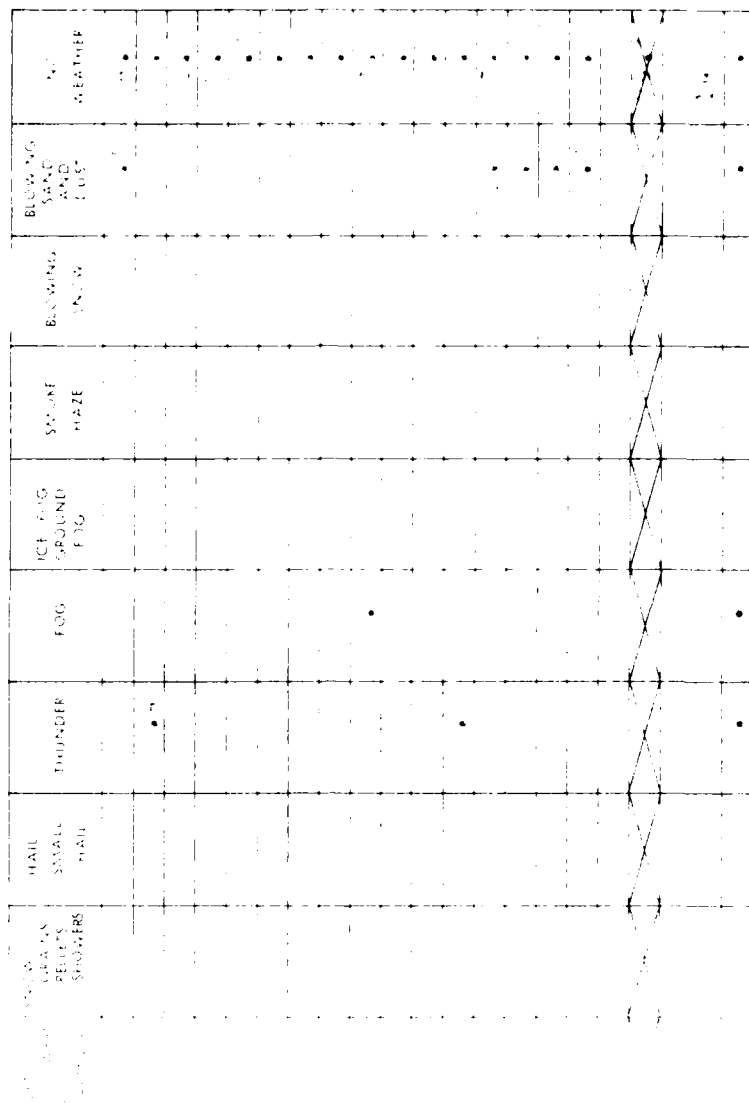
TOTAL NUMBER OF OBSERVATIONS

FREQUENCY OF WIND DIRECTION AT A PARTICULAR PLACE



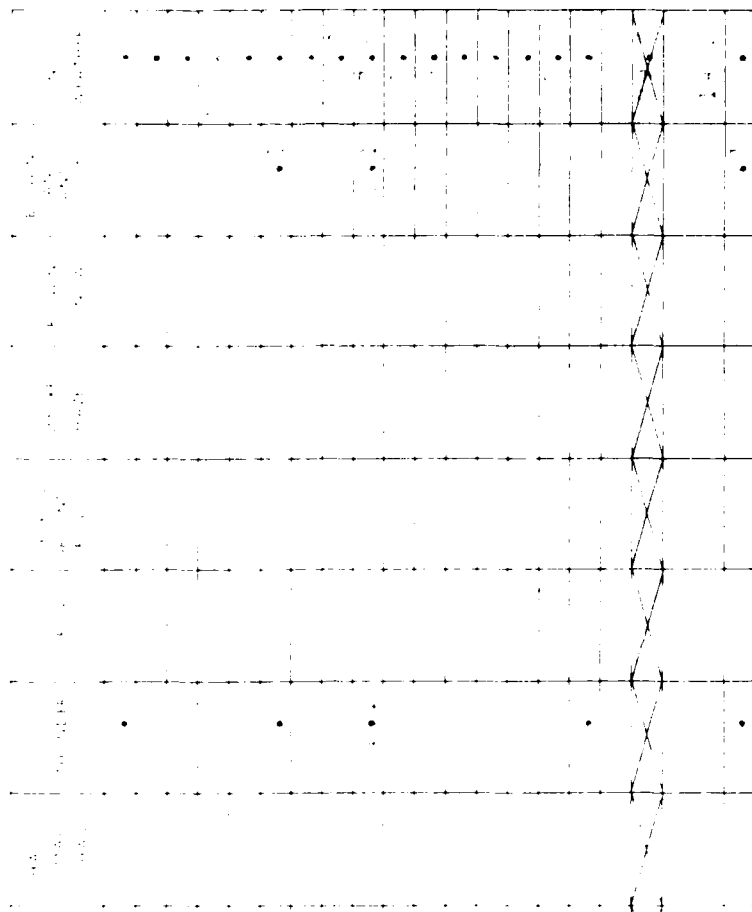
TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



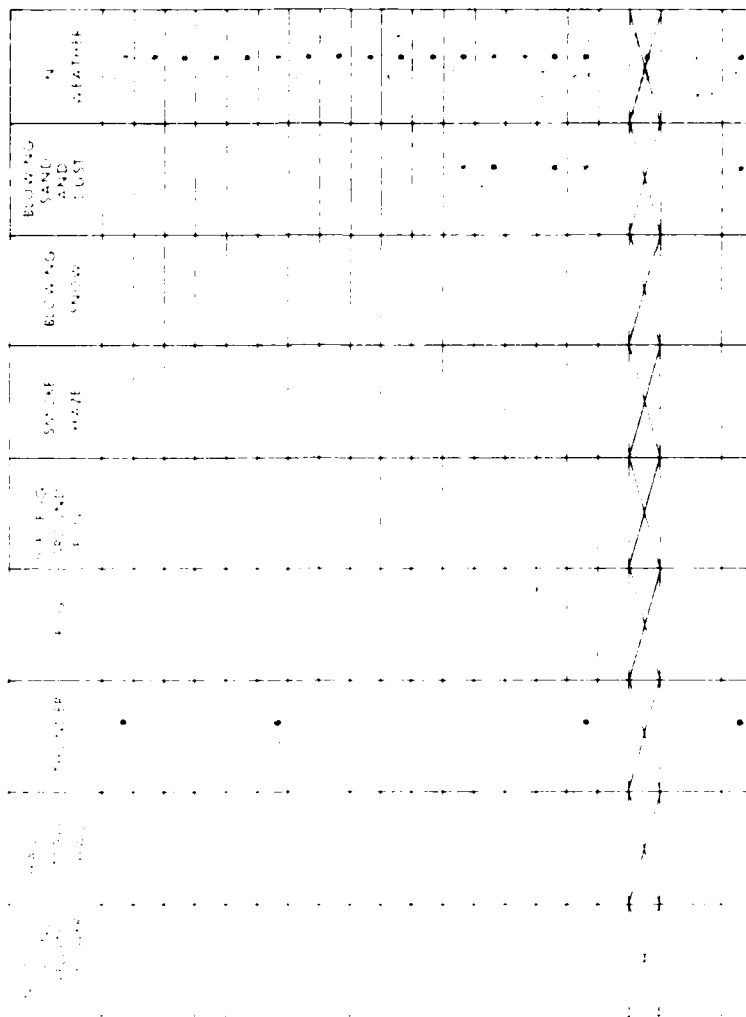
TOTAL NUMBER OF OBSERVATIONS

3 456 FREQUENCY OF WIND DIRECTION 789 WEATHER CONDITIONS



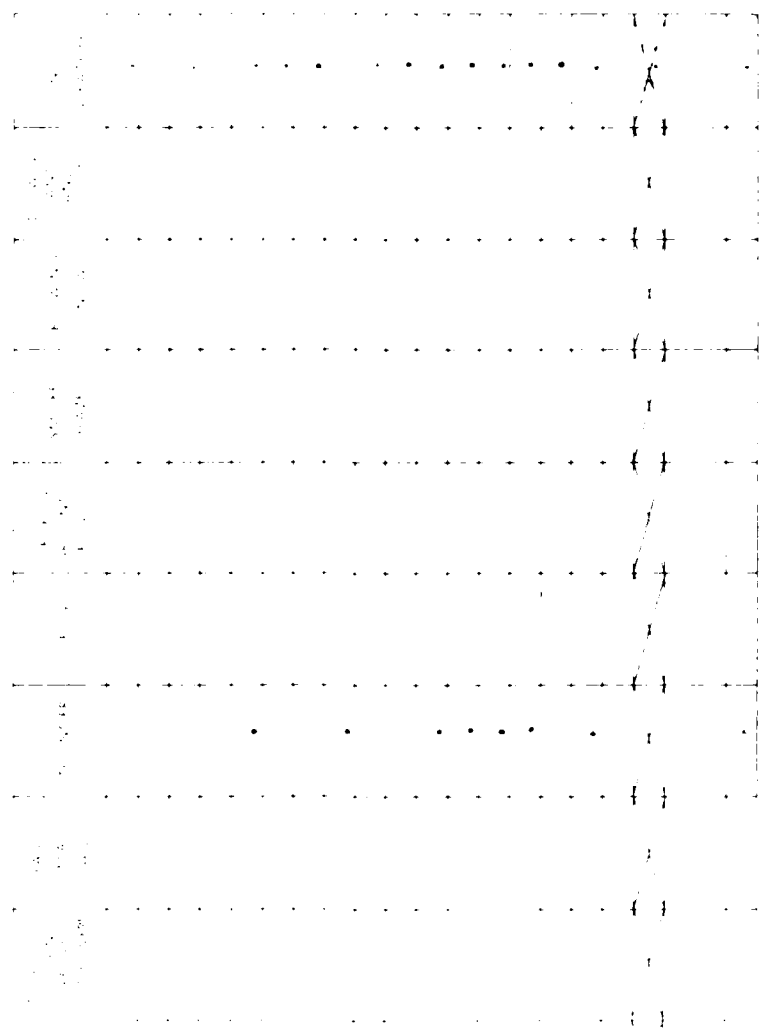
TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND DIRECTION VS WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

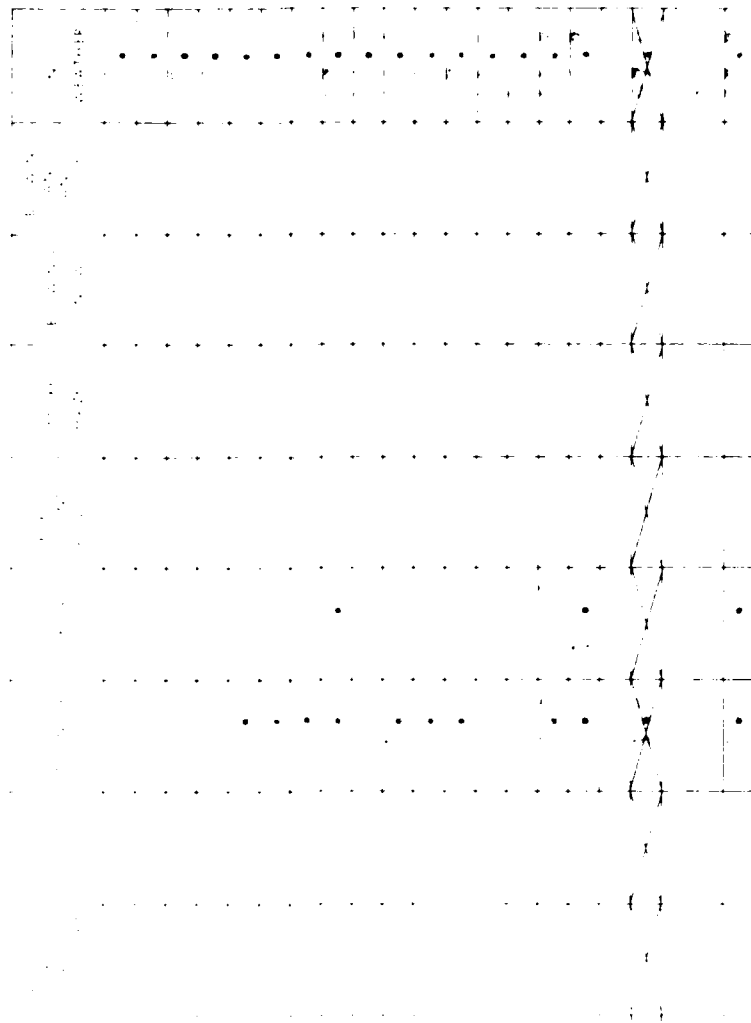
AVERAGE FREQUENCY OF WIND DIRECTION
WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

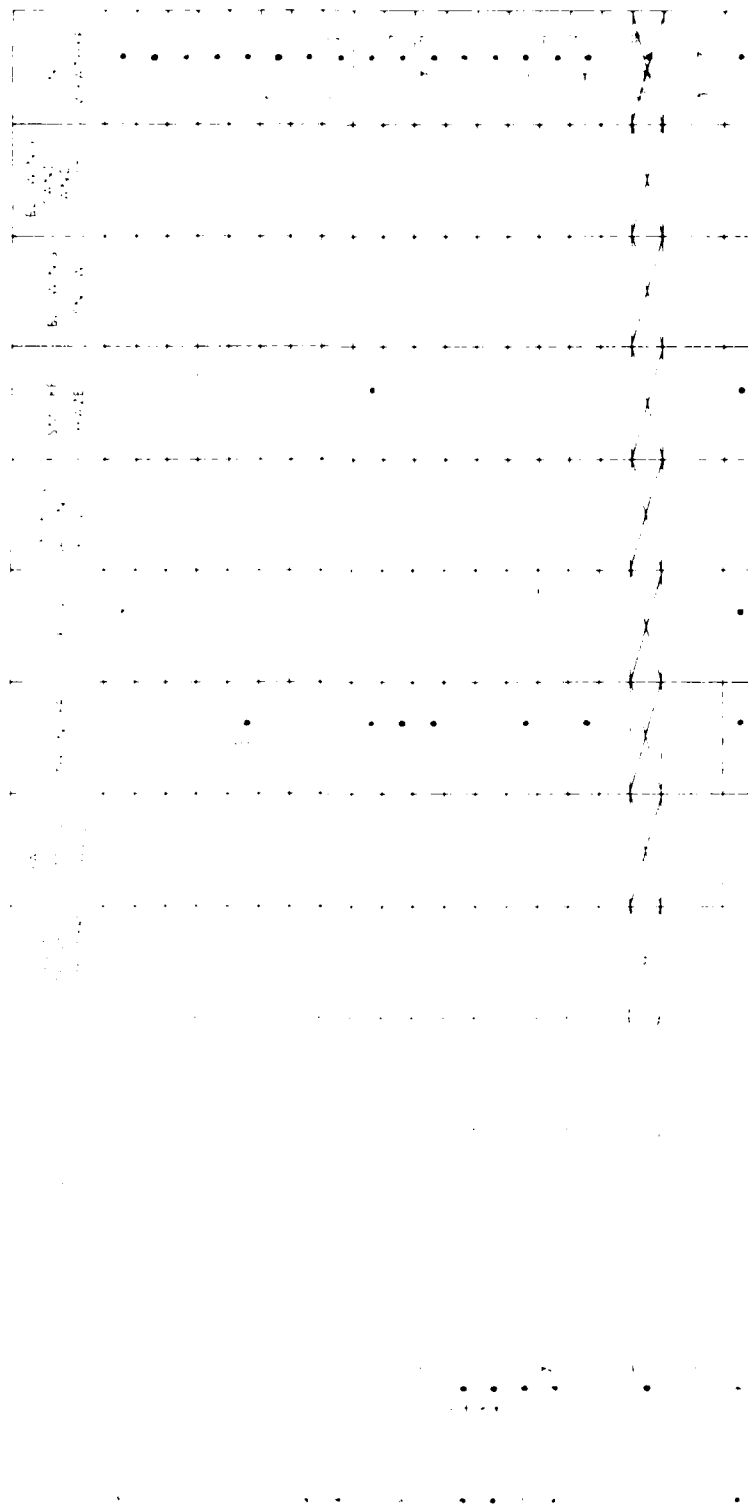
FREQUENCY OF WIND DIRECTION WEATHER CONDITIONS

3



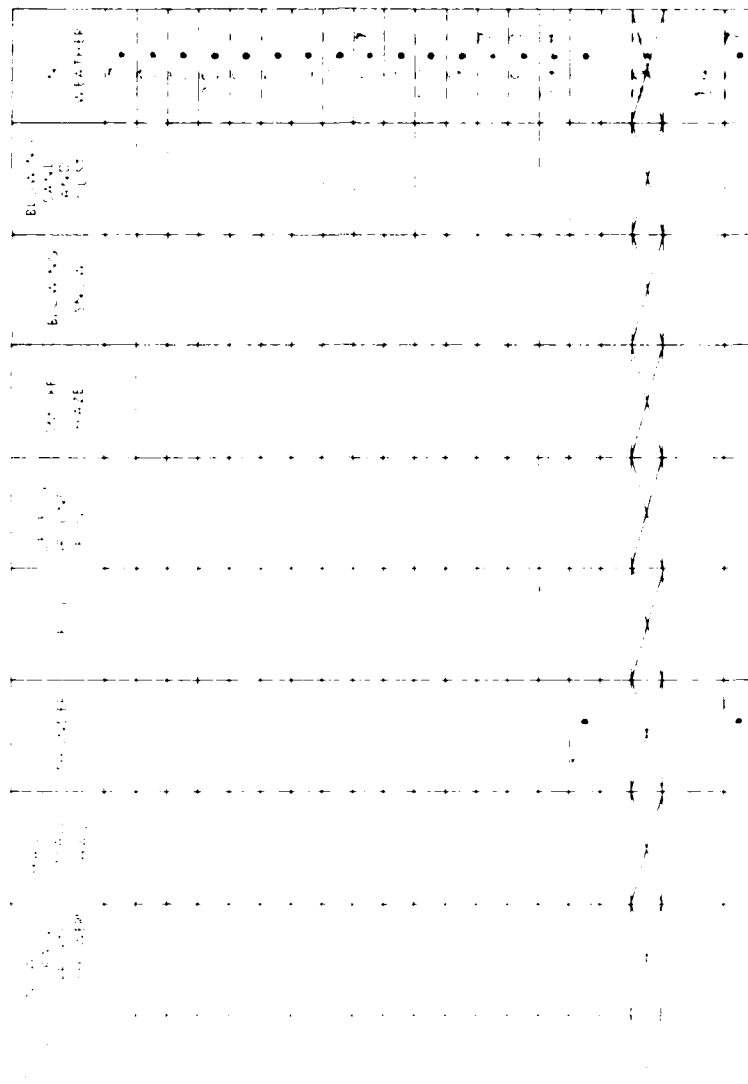
TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



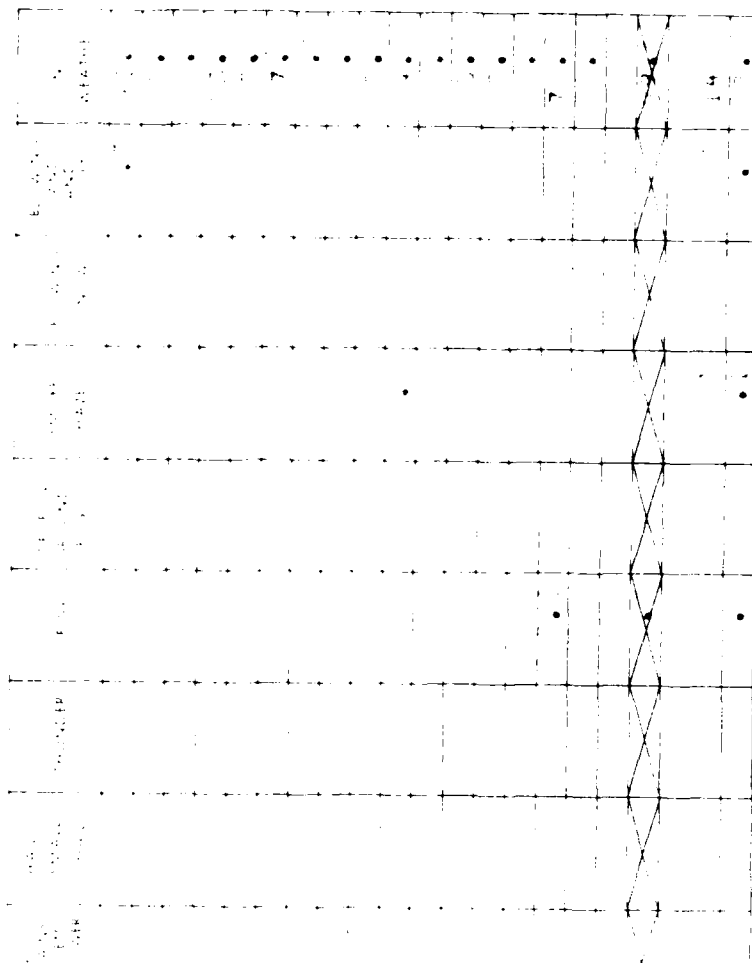
TOTAL NUMBER OF OBSERVATIONS —

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



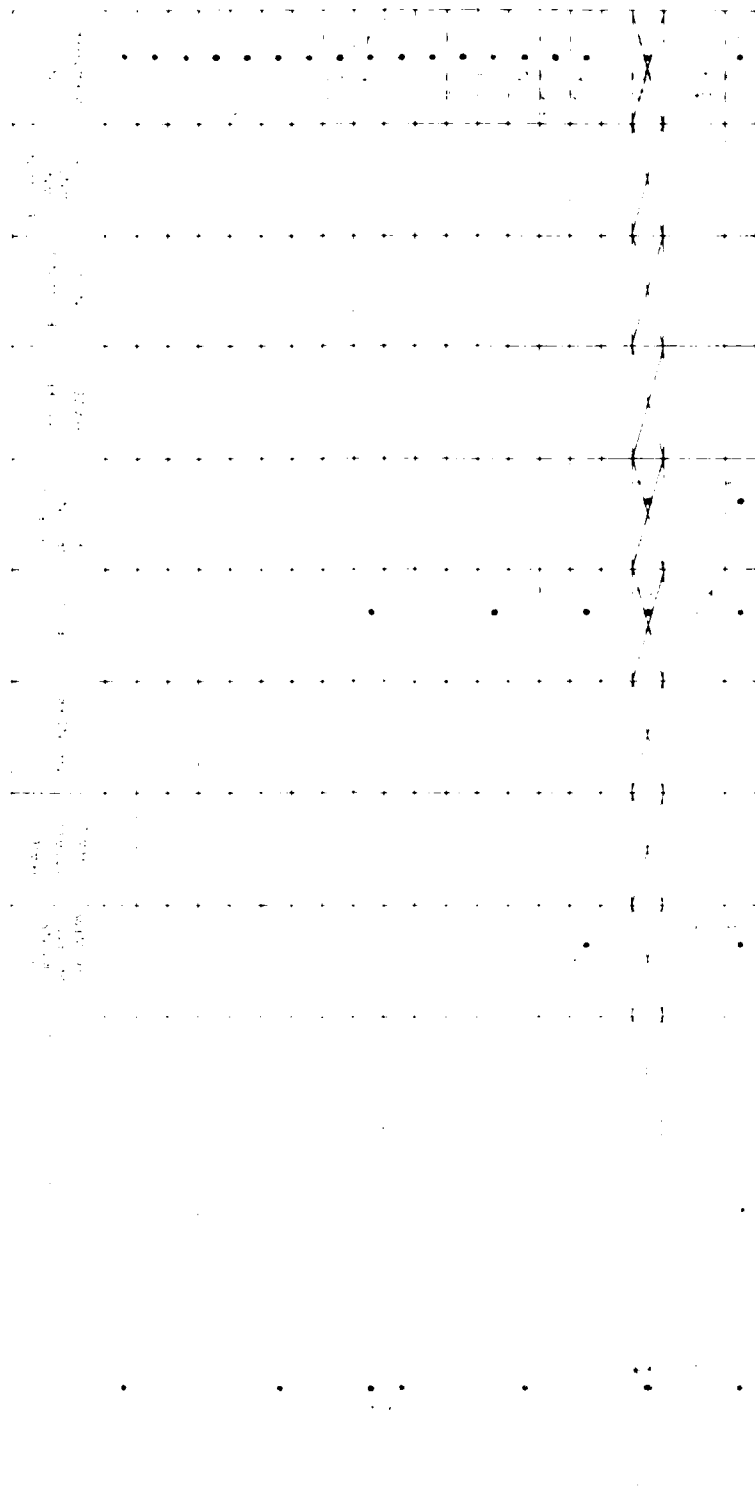
TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND DIRECTION VS. WEATHER CONDITIONS



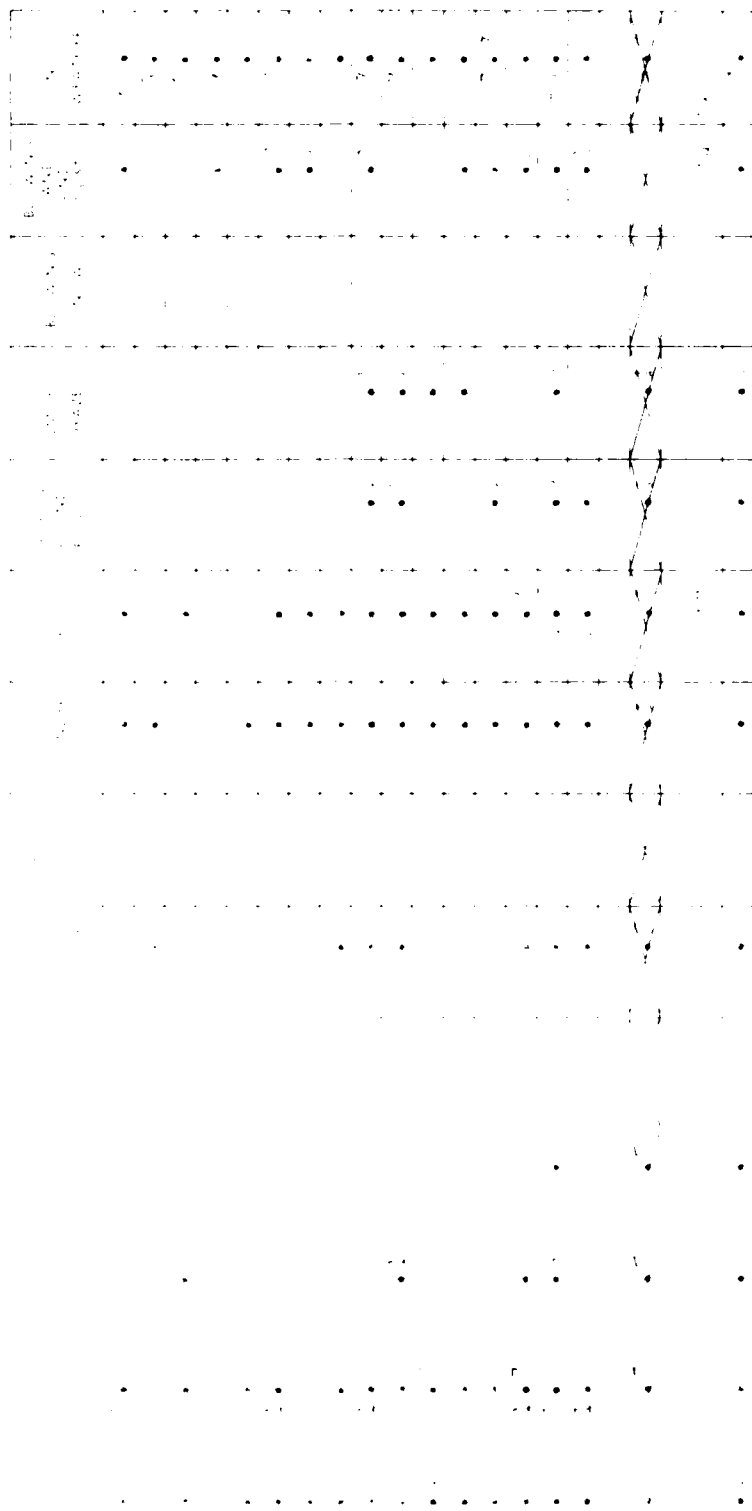
TOTAL NUMBER OF OBSERVATIONS

3 2. FREQUENCY OF WIND DIRECTION 3. WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

3 THE FREQUENCY OF WIND DIRECTION AND WEATHER CONDITIONS



TOTAL NUMBER OF OBSERVATIONS

PART B PRECIPITATION, SNOWFALL & SNOW DEPTH

This precipitation is the Uniform Summary presented in two sets of tables, the daily amounts and extreme values of the following:

- PRECIPITATION DERIVED FROM DAILY OBSERVATIONS
- SNOWFALL* DERIVED FROM DAILY OBSERVATIONS
- SNOW DEPTH DERIVED FROM DAILY OBSERVATIONS

The first two of the above presents the percentage frequency of various daily amounts, to which are also included the percentage of days with considerable amounts is also computed monthly and annually. The second table, which for the precipitation and snowfall tables, are the monthly mean amounts, annual means, and extremes of monthly mean amounts (greatest and least). The extreme values of the above are not presented for the snow depth summary since they would have limited value and are not available.

The third table for even of the above presents the extreme daily amounts by individual year and month. The period of record available. Also provided are the means and standard deviations for the monthly and annual (all months). The extremes for a month are not printed nor used in computations if the data for the extremes are missing.

The snow depth summary is presented and punched at various hours during the period available from U. S. operators. The period is said hours used in the snow depth summary vary by service and period as follows:

Period of record	From beginning of record thru	Snow depth at
Jan 46-May 57	Jan 46-May 57	Snow depth at 0800 LST
Jun 57-present	Jun 57-present	Snow depth at 1230 GCT
		Snow depth at 1200 GCT
From beginning of record thru	Jun 52	Snow depth at 0030 GCT
Jul 52-May 57	Jul 52-May 57	Snow depth at 1230 GCT
Jun 57-present	Jun 57-present	Snow depth at 1200 GCT

* Snowfall is defined as snowfall occurrence in the summary of the day observation prior to Jan 1956, and after Jan 1956.

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

	AMOUNTS (INCHES)													PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)		
	PRECIP	NONE	TRACE	0.1	0.2	0.5	0.6	1.0	2.5	5.0	10.0	20.0	OVER 20.0			MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	0.1	0.2	0.5	0.6	1.0	2.5	5.0	10.0	20.0	OVER 20.0						
SNOW DEPTH	NONE	TRACE	1	2	3	4	6	7	12	13	24	36	48	61	120	OVER 120		
JAN																		
FEB																		
MAR																		
APR																		
MAY																		
JUN																		
JUL																		
AUG																		
SEP																		
OCT																		
NOV																		
DEC																		
ANNUAL																		

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF

(FROM DAILY OBSERVATIONS)

STATION

STATION NAME

YEARS

PRECIP	NONE	TRACE	01	02	03	04	05	06	AMOUNTS (INCHES)												PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS (INCHES)															
									07	08	09	10	11	12	13	14	15	16	17	18			19	20	21	22	23	24	25	26	27	28	29	30	31	MEAN	GREATEST	LEAST
SNOWFALL	NONE	TRACE	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
SNOW DEPTH	NONE	TRACE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31					
JAN																																						
FEB																																						
MAR																																						
APR																																						
MAY																																						
JUN																																						
JUL																																						
AUG																																						
SEP																																						
OCT																																						
NOV																																						
DEC																																						
ANNUAL																																						

DAILY AMOUNTS

PERCENTAGE FREQUENCY OF
(FROM DAILY OBSERVATIONS)

STATION NAME

YEARS

	AMOUNTS INCHES											PERCENT OF DAYS WITH MEASUR- ABLE AMTS	TOTAL NO OF OBS	MONTHLY AMOUNTS INCHES		
														MEAN	GREATEST	
	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40					
JAN	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
FEB	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
MAR	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
APR	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
MAY	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
JUN	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
JUL	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
AUG	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
SEP	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
OCT	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
NOV	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
DEC	NONE	TRACE	0.04	0.08	0.12	0.16	0.20	0.25	0.30	0.35	0.40	50.00	50.00	0.00	20.00	0.00
ANNUAL																

WALTON, RATHER SERVICE DETACHMENT
ASCOVILLE, NORTH CAROLINA

EXTREME VALUES

[illegible]

DIVISION 24.0

YEARS

1

[illegible]

Soils

EXTREME VALUES

STATION NAME

ARTISTS

SMOS

EXTREME VALUES

[illegible]

RELATION NANT

YEARS

[illegible]

19

EXTREME VALUES

Yt 2R2,

SOWS

EXTREME VALUES

Figure 1 is a schematic representation of the experimental design. It shows a sequence of events: a subject is presented with a stimulus (a word), then a response is generated (a word), and finally, the response is evaluated (a word). The response is then used as the stimulus for the next trial. The process is repeated for multiple trials. The diagram is labeled with 'Stimulus', 'Response', and 'Evaluation'.

YEARS

[illegible]

SOLOS

DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
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12						
13						
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23						
24						
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26						
27						
28						
29						
30						
31						
Monthly						

* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS

DIRNAVOCEANMET-SMOS

3

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	FEET	INCHES	FEET	INCHES	FEET
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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16						
17						
18						
19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	FEET	INCHES	FEET	INCHES	FEET
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
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26						
27						
28						
29						
30						
31						
Monthly						

* ALSO ON EARLIER YEARS
 T - TRACE - AN AMOUNT TOO SMALL TO MEASURE
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DIRNAVOCEANMET-SMOS

DAILY EXTREME AMOUNTS

STATION NO. 100-100
 LOCATION 100-100
 YEARS 1960-1961

DAY	MONTH	YEAR	SNOWFALL GREATEST		
			INCHES	MM	DATE
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
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16					
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21					
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24					
25					
26					
27					
28					
29					
30					
31					
Monthly					

DAY	MONTH	YEAR	PRECIPITATION GREATEST			WIND GREATEST		
			INCHES	MM	DATE	MPH	KPH	DATE
1								
2								
3								
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5								
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24								
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26								
27								
28								
29								
30								
31								
Monthly								

* ALSO ON EARLIER YEARS
 T - TRACE, AN AMOUNT TOO SMALL TO MEASURE
 BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS

STATION NAME

YEARS

MONTH

MONTH

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
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5						
6						
7						
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9						
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27						
28						
29						
30						
31						
Monthly						

DAY	PRECIPITATION GREATEST			SNOWFALL GREATEST		
	INCHES	MM	DATE	INCHES	MM	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						
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19						
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21						
22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Monthly						

* ALSO ON EARLIER YEARS

T TRACE, AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD OF RECORD

DAILY EXTREME AMOUNTS

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

YEARS

MONTH

DAY	INCHES	MM	DATE	PRECIPITATION GREATEST	SNOWFALL GREATEST	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
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16						
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22						
23						
24						
25						
26						
27						
28						
29						
30						
31						
Month						

DAY	INCHES	MM	DATE	PRECIPITATION GREATEST	SNOWFALL GREATEST	DATE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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27						
28						
29						
30						
31						
Month						

1. RECORD EARLIER YEARS

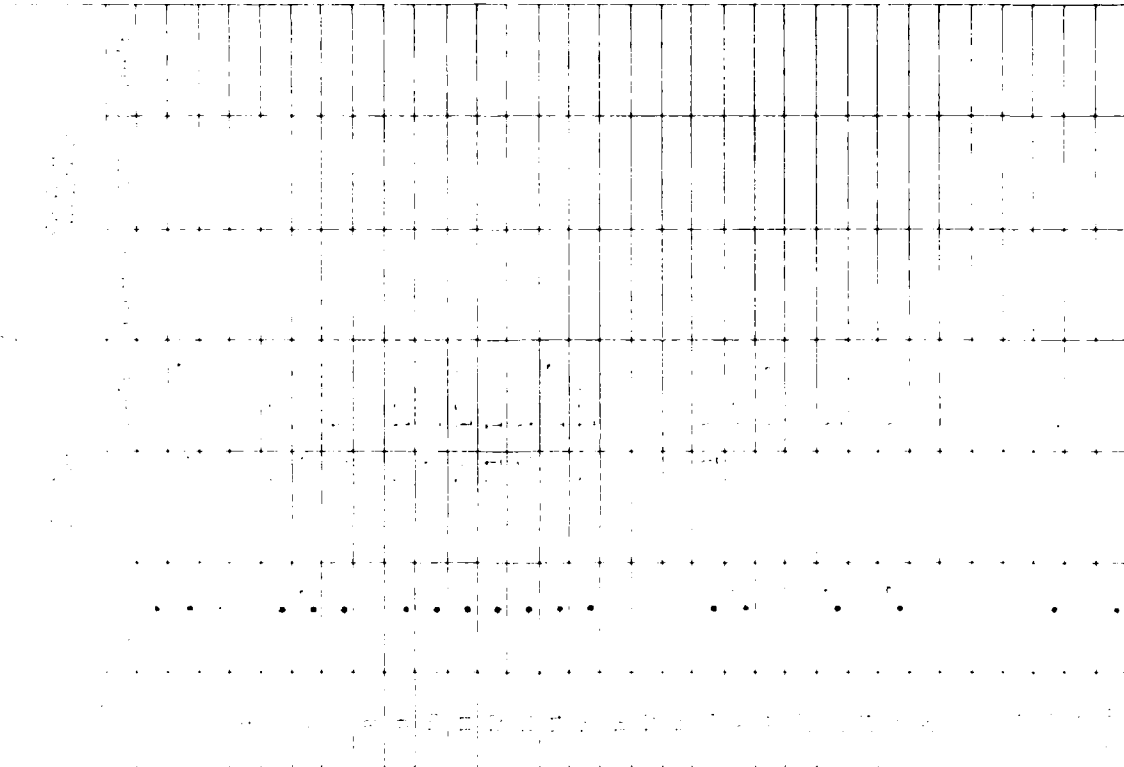
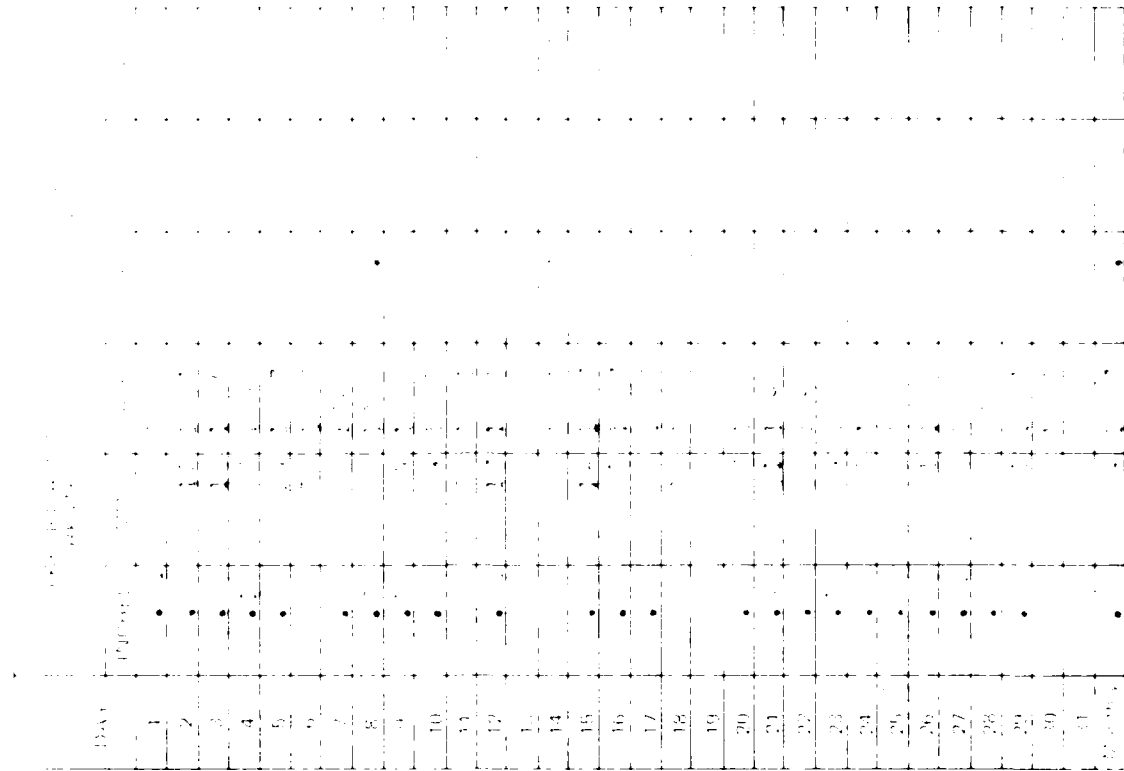
2. TRACE - AN AMOUNT TOO SMALL TO MEASURE

BLANK UNDER SNOWFALL INDICATES NO SNOWFALL FOR PERIOD

DAILY EXTREME AMOUNTS

STATION: DIRMAR, SEPT. 1961, DIRMAR, SEPT. 1961, DIRMAR, SEPT. 1961

3



STATION: DIRMAR, SEPT. 1961, DIRMAR, SEPT. 1961, DIRMAR, SEPT. 1961

DIRNAVOCEANMET-SMOS

PART C

SURFACE WINDS

Information on surface winds is presented in the following tables:

1. Hourly Frequency - Data for each station are presented in individual year summaries. Frequency data are presented in the form of compass points and calm, while directions are given in degrees. The frequency of occurrence is given through 19.5, and in terms of degree bearing in January 1950, and in terms of degree bearing in January 1951.
2. Peak Gusts - Hourly observations of peak gust wind data are available for a month, the extreme is given in the summary. The values are then used to compute mean and standard deviations for the entire period of study. When data are not available, present before the ALL MONTHS value is selected for the year. Mean and standard deviations are computed when four or more values are present for any month. The percentage of peak gusts by year-month with $< 30\%$ observation reported is also provided.

NOTES: 1. Data for "Direction Specifications", "Peak Gust Data are recorded only at stations with continuous observations of wind speed recording."

3. Direction Frequency - Frequency - Tabulations: Derived from hourly observations, these tabulations are a percentage frequency of wind direction by compass points and calm by wind speeds (knots) in increments of 10 degrees. Percentages are shown by both direction and speed, and in addition the mean wind speed by each direction.

A separate category is provided on the form for variable winds, which are reported in some data sources. In these data where light and variable winds are reported with no directions but with speeds given, the speed data is summarized in the appropriate groups opposite the column headed VARS.

4. Barometric - are prepared for all surface winds included, and for all years combined as follows:

- 1) Annual - all years combined
- 2) By month - all years combined
- 3) By month - by standard 3-hour groups

5. A separate annual table is also presented for surface winds meeting the following ceiling and visibility conditions: INSTRUMENT CLASS: Ceiling 200 through 1400 feet inclusive with visibility equal to or greater than 1/2 mile, and/or visibility 1/2 through 7-1/2 miles inclusive with ceiling equal to or greater than 200 feet.

EXTREME VALUES

[illegible]

EXTREME VALUES

[illegible]

TABLE 1.

[illegible]

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____

HOURS (L S T)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ MONTH _____

STATION _____ YEARS _____

CLASS _____ HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____

STATION NAME _____

YEARS _____

MONTH _____

HOURS _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

— YEARS

MONTH

MOVIES (LST)

CLASS

CONDITION[illegible]

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEARS _____ MONTH _____

HOURS (LST) _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ STATION _____ MONTH _____

CLASS _____ YEARS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SSE													
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NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

NATIONAL WEATHER SERVICE
STATION NO. 111111111111
INSTRUMENT NO. 111111111111

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SE													
SSE													
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NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
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SE												
SSE												
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SSW												
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WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEAR _____ MONTH _____
HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

2

MONTH

HOURS

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS LST

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEAR _____ MONTH _____
CLASS _____ HOURS _____

SPEED KNTS D.R.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURE - LST

CONDITION

SPEED (KNTS) DIP	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SE													
SSE													
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SSW													
SW													
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NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____ S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SE													
SSE													
S													
SSW													
SW													
WSW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH	HOURS	CLASS	CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (L S Y)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SSE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____
 STATION NAME _____ YEARS _____
 CLASS _____ HOURS _____
 CONDITION _____

SPEED (KTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
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VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-0	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
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SE													
SSE													
S													
SSW													
SW													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH	HOURS	CLASS	CLASS

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURS 1 2 3 4 5 6

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
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SE													
SSE													
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WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS

CLASS

CONDITION

SPEED (KNTS) DIR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____ YEARS _____ HOURS L S T

CLASS

CONDITION

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

HOURS LST

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED KTS OR	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS LST

CONDITION

SPEED KNTS D.R.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS - L S T

CLASS

CONDITION

SPEED (KNTS) Dir	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEAR _____ MONTH _____

HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

HOURE (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ DATE _____ YEAR _____ MONTH _____ DAY _____

CLASS _____

CONDITION _____

MOUSE TEST _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

NAVY AIRCRAFT SERVICE
STATION NAME
STATION

YEARS

STATION NAME

STATION

MONTH

HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SMOS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS 11 5 T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

MONTH

HOURS L S T

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEAR _____ MONTH _____
CLASS _____ HOURS (L.S.T.) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS _____

CONDITION _____

SPEED (KNTS) DIR	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
V/RBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____
CONDITION _____

SPEED KTS OR	3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

CLASS

HOURS

CONDITION

SPEED KNTS G.R.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
N E													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

AD-A150 378 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 2/4
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

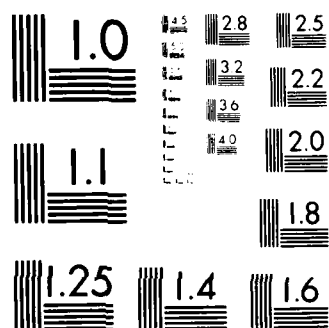
2/4

UNCLASSIFIED DETACHMENT ASHEVILLE NC AUG 84 F/G 4/2 NL

F/G 4/2

NL

A 10x10 grid of squares, with the top-left square missing.



MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOUR (LST) _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0	1.0	1.0	1.0							2.0	5.2
NNE	1.0	1.0	1.0	1.0	1.0							1.7	5.1
NE	1.0	1.0	1.0	1.0	1.0							1.0	4.2
ENE	1.0	1.0	1.0	1.0	1.0							1.0	3.6
E	1.0	1.0	1.0	1.0	1.0							1.0	5.0
ESE	1.0	1.0	1.0	1.0	1.0	1.0						4.7	5.9
SE	1.0	1.0	1.0	1.0	1.0							4.3	5.9
SSE	1.0	1.0	1.0	1.0	1.0							4.3	6.1
S	1.0	1.0	1.0	1.0	1.0	1.0						10.2	7.6
SSW	1.0	1.0	1.0	1.0	1.0	1.0						10.1	6.1
SW	1.0	1.0	1.0	1.0	1.0	1.0						10.3	2.7
WSW	1.0	1.0	1.0	1.0	1.0	1.0	1.0					6.6	10.6
W	1.0	1.0	1.0	1.0	1.0	1.0	1.0					9.1	9.3
WNW	1.0	1.0	1.0	1.0	1.0	1.0						2.3	8.0
NW	1.0	1.0	1.0	1.0	1.0	1.0						1.2	7.1
NNW	1.0	1.0	1.0	1.0	1.0	1.0						1.7	8.2
VARBL													
CALM												10.1	
	10.7	10.7	10.7	10.7	10.7	10.7	10.7					100.0	6.4

TOTAL NUMBER OF OBSERVATIONS

104

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME U.S. AIR FORCE YEARS 1967 MONTH JUL
 CLASS U.S. AIR FORCE HOURS (LST) 07

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.0	1.1
NNE	1.0											1.0	2.7
NE	1.0	1.0										1.0	2.8
ENE	1.0											1.0	3.0
E	1.0	1.0										2.0	4.0
ESE													
SE	1.0	1.0										1.0	3.0
SSE	1.0	1.0										1.0	2.5
S	1.0	1.0	1.0	1.0								4.0	4.1
SSW	1.0	1.0	1.0	1.0								6.0	5.0
SW	1.0	1.0	1.0	1.0								4.0	4.3
WSW	1.0	1.0	1.0	1.0								4.0	3.1
W	1.0	1.0	1.0	1.0								4.0	2.6
WNW	1.0	1.0	1.0	1.0								3.0	3.5
NW	1.0	1.0	1.0	1.0								1.0	2.8
NNW	1.0	1.0	1.0	1.0								3.0	3.5
VARBL													
CALM												1.0	1.6
	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0

TOTAL NUMBER OF OBSERVATIONS

310

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS 11 5 T _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.7	2.2
NNE												1.7	2.2
NE												1.7	2.7
ENE												2.9	2.9
E												9.7	3.7
ESE												7.1	2.4
SE												7.7	2.5
SSE												10.2	4.4
S												9.1	3.3
SSW												7.4	7.6
SW												3.7	5.2
WSW												2.6	5.7
W												2.9	3.1
WNW												8.6	3.3
NW												8.7	2.9
NNW												8.6	2.5
VARBL													
CALM												1.0	
												100.0	2.9

TOTAL NUMBER OF OBSERVATIONS 110

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
JUL
17
HOURS (L.S.T.) _____

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.1											.4	1.1
NNE	.1											.3	2.0
NE		.1										.3	4.0
ENE	.1	1.7										1.2	3.7
E	.1	7.0	1.1	.1								4.5	5.2
ESE	1.1	1.1	3.7	.6								6.1	6.7
SE		1.1	4.8									9.7	6.5
SSE	1.1	1.1	5.1	1.1								13.6	7.7
S	.1	5.1	7.7	7.7								19.1	8.2
SSW	.1	7.7	6.3	7.7	1.1							17.3	10.5
SW	.1	1.1	6.3	7.7	.6							9.1	9.9
WSW	.1	.1	1.1	.6	.1							3.6	8.8
W	1.1	.1	.1	.1								1.1	5.5
WNW		.1										.3	4.3
NW	.1	.1										1.1	3.3
NNW	.1	.1	.1									1.1	5.0
VARBL													
CALM												4.5	
	17.3	11.1	34.2	11.1	1.1							100.0	7.5

TOTAL NUMBER OF OBSERVATIONS

309

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION STATION NAME YEARS MONTH Jul
CLASS HOURS (LST) 16

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												0.0	3.0
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS 251

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 JUL 19 _____
 CLASS _____
 HOURS (LST) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

122

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS (LST) _____

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

JUL

MONTH

ALL

HOURS (LST)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	2.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
E	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.0
ESE	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.0
SE	1.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
SSE	1.0	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	7.0
S	1.0	3.0	4.0	1.0	.0	.0	.0	.0	.0	.0	.0	12.0	7.0
SSW	.0	2.0	3.0	1.0	.0	.0	.0	.0	.0	.0	.0	15.0	8.0
SW	1.0	1.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	9.0	9.0
WSW	1.0	1.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	6.0	9.0
W	1.0	1.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	7.0	7.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
VARBL													
CALM												11.0	
	1.0	5.0	6.0	1.0	1.0	.0	.0	.0	.0	.0	.0	18.0	5.7

TOTAL NUMBER OF OBSERVATIONS

1471

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME ASHEVILLE YEARS 1961 MONTH 11 HOUR (LST) 17

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												2.6	2.1
NNE												1.3	2.8
NE												.7	3.5
ENE													
E												.7	2.7
ESE												.8	2.0
SE												1.7	2.3
SSE												.4	3.5
S												4.7	4.2
SSW												4.2	3.9
SW												6.8	4.4
WSW												2.2	4.2
W												4.7	2.9
WNW												2.3	2.7
NW												1.8	3.5
NNW												.5	1.6
VARBL													
CALM												1.8	1.6

TOTAL NUMBER OF OBSERVATIONS

709

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____ HOURS (LST) _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	•	•										1.0	3.0
NNE		•										•	4.0
NE		•										•	1.0
ENE	1.0	•										1.0	2.0
E	•	1.0	•									1.0	3.0
ESE	•	•	•									1.0	2.0
SE	•	1.0	•									4.0	1.0
SSE	•	•	1.0	•								1.0	4.0
S	•	1.0	1.0	1.0								1.0	2.0
SSW	1.0	•	•	1.0	•							6.0	2.0
SW	•	•	1.0	•	•							7.0	2.0
WSW	•	1.0	•									5.0	2.0
W	1.0	1.0										2.0	4.0
WNW		•										•	•
NW													
NNW	•	1.0										1.0	4.0
VARBL													
CALM												1.0	2.0
												1.0	2.0

TOTAL NUMBER OF OBSERVATIONS

310

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

NAVY AIRCRAFT DEVELOPMENT
CENTER
WHEATVILLE, NC

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS (L.S.T.) _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													1.0
NNE													1.0
NE													1.0
ENE													1.0
E													1.0
ESE													1.0
SE													1.0
SSE													1.0
S													1.0
SSW													1.0
SW													1.0
WSW													1.0
W													1.0
WNW													1.0
NW													1.0
NNW													1.0
VARBL													1.0
CALM													1.0
													1.0

TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MOUTH
			HOURS 11 T
		CLASS	
		CONDITION	

[illegible]

TOTAL NUMBER OF OBSERVATIONS

217

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

Figure 6

STATION	STATION NAME	YEARS	NORTH

YEARS

STATION NAME

STATION

HOURS (L S Y

CLASS

CONDITION

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SOWS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND DIRECTION AND SPEED (FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEAR _____ MONTH _____

CLASS _____ HOUR (LIST) _____

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	2.0
NNE												1.0	2.0
NE												1.0	2.0
ENE												1.0	2.0
E												1.0	2.0
ESE												1.0	2.0
SE												1.0	2.0
SSE												1.0	2.0
S												1.0	2.0
SSW												1.0	2.0
SW												1.0	2.0
WSW												1.0	2.0
W												1.0	2.0
WNW												1.0	2.0
NW												1.0	2.0
NNW												1.0	2.0
VARBL												1.0	2.0
CALM												1.0	2.0

TOTAL NUMBER OF OBSERVATIONS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

YEARS

WOMEN

NOV 11 1966

CLASS

CONDITION	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

[illegible]

TOTAL NUMBER OF OBSERVATIONS

SMS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEAR _____ MONTH _____

HOURS (L.S.T.)

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												2.7	2.7
NNE												0.0	0.0
NE												1.0	2.0
ENE												2.7	2.7
E												2.7	2.7
ESE												2.7	2.7
SE												2.7	2.7
SSE												2.7	2.7
S												2.7	2.7
SSW												2.7	2.7
SW												2.7	2.7
WSW												2.7	2.7
W												2.7	2.7
WNW												2.7	2.7
NW												2.7	2.7
NNW												2.7	2.7
VARBL												2.7	2.7
CALM												2.7	2.7
												2.7	2.7

TOTAL NUMBER OF OBSERVATIONS

2.7

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS TEST _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	1.0	1.0										2.2	3.7
NNE	1.0	1.0										2.2	3.8
NE	1.0	1.0	1.0									2.2	4.7
ENE	1.0	1.0	1.0									4.2	4.3
E	1.0	1.0	1.0	1.0								7.2	3.8
ESE	1.0	1.0	1.0	1.0								11.4	4.1
SE	1.0	1.0	1.0	1.0								13.4	6.3
SSE	1.0	1.0	1.0	1.0								11.1	5.5
S	1.0	1.0	1.0	1.0								13.4	7.4
SSW	1.0	1.0	1.0	1.0								11.4	8.9
SW	1.0	1.0	1.0	1.0								3.6	4.3
WSW	1.0	1.0	1.0	1.0								1.6	10.7
W	1.0	1.0	1.0	1.0								3.7	9.3
WNW	1.0	1.0	1.0	1.0								1.2	7.8
NW	1.0	1.0	1.0	1.0								1.2	2.2
NNW													
VARBL													
CALM													
	10.1	10.1	10.1	11.7	9.2	1.0						100.0	5.8

TOTAL NUMBER OF OBSERVATIONS 298

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS (L.S.T.) _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	5.2
NNE												1.0	5.2
NE												1.0	5.2
ENE												1.0	5.2
E												1.0	5.2
ESE												1.0	5.2
SE												1.0	5.2
SSE												1.0	5.2
S												1.0	5.2
SSW												1.0	5.2
SW												1.0	5.2
WSW												1.0	5.2
W												1.0	5.2
WNW												1.0	5.2
NW												1.0	5.2
NNW												1.0	5.2
VARBL												1.0	5.2
CALM												1.0	5.2
												1.0	5.2

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____ HOURS LIST _____

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

**PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)**

WINDY HARBOR SERVICE
OCEANVIEW
DUNELLES, NC

MONTH

MOUSE (13 Y

CLASS

CONDITION[illegible]

TOTAL NUMBER OF OBSERVATIONS

2

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
 CLASS _____ HOURS (LST) _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N	0	0	0	0	0	0	0	0	0	0	0	1.0	4.3
NNE	0	0	0	0	0	0	0	0	0	0	0	1.0	4.4
NE	0	0	0	0	0	0	0	0	0	0	0	1.0	7.7
ENE	0	0	0	0	0	0	0	0	0	0	0	1.0	4.0
E	0	0	0	0	0	0	0	0	0	0	0	5.0	4.5
ESE	0	0	0	0	0	0	0	0	0	0	0	6.0	5.7
SE	0	0	0	0	0	0	0	0	0	0	0	5.0	5.7
SSE	0	0	0	0	0	0	0	0	0	0	0	5.0	5.7
S	0	0	0	0	0	0	0	0	0	0	0	9.7	7.2
SSW	0	0	0	0	0	0	0	0	0	0	0	11.0	7.8
SW	0	0	0	0	0	0	0	0	0	0	0	6.0	6.6
WSW	0	0	0	0	0	0	0	0	0	0	0	1.0	7.0
W	0	0	0	0	0	0	0	0	0	0	0	5.0	5.7
WNW	0	0	0	0	0	0	0	0	0	0	0	6.0	5.1
NW	0	0	0	0	0	0	0	0	0	0	0	1.0	6.1
NNW	0	0	0	0	0	0	0	0	0	0	0	1.0	7.9
VARBL	0	0	0	0	0	0	0	0	0	0	0	0	0
CALM	0	0	0	0	0	0	0	0	0	0	0	0	0

TOTAL NUMBER OF OBSERVATIONS

1164

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												1.0	1.0
NNE												1.0	1.0
NE												1.0	1.0
ENE												1.0	1.0
E												1.0	1.0
ESE												1.0	1.0
SE												1.0	1.0
SSE												1.0	1.0
S												1.0	1.0
SSW												1.0	1.0
SW												1.0	1.0
WSW												1.0	1.0
W												1.0	1.0
WNW												1.0	1.0
NW												1.0	1.0
NNW												1.0	1.0
VARBL												1.0	1.0
CALM												1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME STATION YEARS 1957 NORTH 10
CLASS 1 HOURS 15 ST 1

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												4.0	1.0
NNE												1.0	1.0
NE												1.0	1.0
ENE												1.0	1.0
E												1.0	1.0
ESE												1.0	1.0
SE												1.0	1.0
SSE												1.0	1.0
S												1.0	1.0
SSW												1.0	1.0
SW												1.0	1.0
WSW												1.0	1.0
W												1.0	1.0
WNW												1.0	1.0
NW												1.0	1.0
NNW												1.0	1.0
VARBL												1.0	1.0
CALM												1.0	1.0
												1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____ YEAR _____ HOUR _____ DAY _____

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOURE - L S T

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____

NOVEMBER 1957

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEAR _____ MONTH _____

HOURS 1 2 3 4 5 6 7 8 9 10 11 12

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												7.0	1.0
NNE												7.0	1.0
NE												7.0	1.0
ENE												7.0	1.0
E												7.0	1.0
ESE												7.0	1.0
SE												7.0	1.0
SSE												7.0	1.0
S												7.0	1.0
SSW												7.0	1.0
SW												7.0	1.0
WSW												7.0	1.0
W												7.0	1.0
WNW												7.0	1.0
NW												7.0	1.0
NNW												7.0	1.0
VARBL												7.0	1.0
CALM												7.0	1.0

TOTAL NUMBER OF OBSERVATIONS

NAVAL WEATHER SERVICE
DETACHMENT
ASHEVILLE, NC

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ YEARS _____ MONTH _____
CLASS _____ HOURS 11 5 7

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

NAVAL WEATHER SERVICE
DETACHMENT
AGREEMENT

STATION NAME _____ MONTH _____ YEARS _____ HOURS _____

CLASS _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____

YEARS _____

MONTH _____

CLASS _____

MOORE T L S T

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												2.0	2.0
NNE												2.0	2.0
NE												2.0	2.0
ENE												2.0	2.0
E												2.0	2.0
ESE												2.0	2.0
SE												2.0	2.0
SSE												2.0	2.0
S												2.0	2.0
SSW												2.0	2.0
SW												2.0	2.0
WSW												2.0	2.0
W												2.0	2.0
WNW												2.0	2.0
NW												2.0	2.0
NNW												2.0	2.0
VARBL												2.0	2.0
CALM												2.0	2.0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

CLASS

HOUSE (L.S.T.)

CONDITION

SPEED (KNOTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

1973

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
U.S. DEPARTMENT OF COMMERCE

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____
STATION NAME _____ YEARS _____
CLASS _____ HOUR _____
CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS _____

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____

STATION NAME _____ YEARS _____

CLASS _____

CONDITION _____

MOORE 1137

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

NORTH

CLASS
HOURS 115 T

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N												1.0	1.0
NNE												1.0	1.0
NE												1.0	1.0
ENE												1.0	1.0
E												1.0	1.0
ESE												1.0	1.0
SE												1.0	1.0
SSE												1.0	1.0
S												1.0	1.0
SSW												1.0	1.0
SW												1.0	1.0
WSW												1.0	1.0
W												1.0	1.0
WNW												1.0	1.0
NW												1.0	1.0
NNW												1.0	1.0
VARBL												1.0	1.0
CALM												1.0	1.0
												1.0	1.0

TOTAL NUMBER OF OBSERVATIONS

1452

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME _____ YEARS _____ MONTH _____

CLASS _____ HOUR _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEAR

MONTH

CLASS

HOURS LIST

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEARS

MONTH

HOURS 11.57

CLASS

CONDITION

SPEED (KNTS) DIR.	1-3	4-6	7-10	11-16	17-21	22-27	28-33	34-40	41-47	48-55	≥56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION

STATION NAME

YEAR

MONTH

HOURS

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION _____ STATION NAME _____ YEARS _____ MONTH _____
CLASS _____ HOURS (L S T) _____

CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS _____

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME

YEARS

MONTH

HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	MEAN WIND SPEED
N												
NNE												
NE												
ENE												
E												
ESE												
SE												
SSE												
S												
SSW												
SW												
WSW												
W												
WNW												
NW												
NNW												
VARBL												
CALM												

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
 DIRECTION AND SPEED
 (FROM HOURLY OBSERVATIONS)

STATION _____ MONTH _____
 STATION NAME _____ YEARS _____
 CLASS _____
 CONDITION _____

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N												4.9	7.0
NNE												7.0	7.0
NE												7.0	7.0
ENE												7.0	7.0
E												7.0	7.0
ESE												7.0	7.0
SE												7.0	7.0
SSE												7.0	7.0
S												7.0	7.0
SSW												7.0	7.0
SW												7.0	7.0
WSW												7.0	7.0
W												7.0	7.0
WNW												7.0	7.0
NW												7.0	7.0
NNW												7.0	7.0
VARBL												7.0	7.0
CALM												7.0	7.0

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION NAME
STATION
YEARS
NORTH
ALL
HOURS LST

CLASS

CONDITION

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													7.4
NNE													7.4
NE													7.4
ENE													7.4
E													7.4
ESE													7.4
SE													7.4
SSE													7.4
S													7.4
SSW													7.4
SW													7.4
WSW													7.4
W													7.4
WNW													7.4
NW													7.4
NNW													7.4
VARBL													7.4
CALM													7.4

TOTAL NUMBER OF OBSERVATIONS

SURFACE WINDS

PERCENTAGE FREQUENCY OF WIND
DIRECTION AND SPEED
(FROM HOURLY OBSERVATIONS)

STATION	STATION NAME	YEARS	MONTH
	CLASS		MOUSE 11.57
	CONDITION		

SPEED (KNTS) DIR.	1 - 3	4 - 6	7 - 10	11 - 16	17 - 21	22 - 27	28 - 33	34 - 40	41 - 47	48 - 55	≥ 56	%	MEAN WIND SPEED
N													
NNE													
NE													
ENE													
E													
ESE													
SE													
SSE													
S													
SSW													
SW													
WSW													
W													
WNW													
NW													
NNW													
VARBL													
CALM													

TOTAL NUMBER OF OBSERVATIONS

PART D

CEILING VERSUS VISIBILITY

This section contains the percentage frequency distribution by classes of ceiling from zero to equal to or greater than 1000 feet and as a separate class "no ceiling", versus visibility in 16 classes from zero to equal to or greater than 10 miles. Data are derived from 3-hourly observations, and three sets of tables are presented as follows:

1. Annual - 1949 years and all hours combined
2. 1949 and 1950 years and all hours combined
3. 1949 and 1950 years and 3-hour groups

Due to the statistical nature of this presentation, it is possible to determine the percentage frequency of ceiling or visibility separately, or in combination of ceiling and visibility. The percentage frequency of ceiling may be determined independently by referring to the totals in the extreme right hand column. Also, visibility may be determined independently by referring to the totals in the extreme right hand column. The percentage frequency for any given set of ceiling or exceeding any given set of minima may be determined from the figure at the bottom of the appropriate ceiling column and visibility row. Several examples in the use of these tables are shown on pages 2 and 3 below.

These tables are valid for Air Force stations and January 1949 for NAS and U.S. Navy stations the "no ceiling" category includes observations with less than 6/10 total sky cover and those cases where total sky cover is more than 6/10, but not more than 1/2 of the sky cover is opaque.

EXAMPLES FOR USE OF CEILING VERSUS VISIBILITY TABLES IN THIS TABULATION

CEILING FEET	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4
NO CEILING											
≥ 1500											
≥ 1500											
≥ 1200											
≥ 1200											
≥ 800											
≥ 700											
≥ 600											
≥ 500											
≥ 400											
≥ 300											
≥ 200											
≥ 100											
≥ 0											

EXAMPLE # 1 Read ceiling values independently of visibility under column at right headed ≥ 0 .
For instance, from the table: Ceiling ≥ 1500 feet = 92.6%.

Ceiling ≥ 500 feet = 98.1%.

EXAMPLE # 2 Read visibilities independently of ceilings on bottom line opposite ≥ 0 . From the table:
Visibility ≥ 3 miles = 95.4%.

Visibility ≥ 2 miles = 96.9%.

Visibility ≥ 1 mile = 98.3%.

EXAMPLE # 3 To obtain combinations of ceiling with visibility, read figure at intersection of the two categories; i.e.: Ceiling ≥ 1500 feet with visibility ≥ 3 miles = 91.0%.

PART D

ADDITIONAL EXAMPLES

EXAMPLE # 4

Values below minimums stated in the table may be obtained by subtracting the value given in the table from 100%.

Thus, to obtain the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles, subtract the value read from the table at the intersection, which is 91.0, from 100.0. The answer 9.0 is the percentage of observations with ceiling < 1500 feet and/or visibility < 3 miles.

Likewise, the percentage of observations with ceiling < 500 feet and/or visibility < 1 mile is 2.6, obtained by subtracting 97.4 from 100.0.

EXAMPLE # 5

To find the percentage of observations falling within the two categories given in example above, subtract the value read from the table for the first set of limits from the value in the table for the second set of limits. The difference will be the percentage of observations meeting the lower set of limits, but not meeting the higher set of limits.

The value 91.0 read from the table at the intersection of ≥ 1500 feet with ≥ 3 miles, subtracted from 97.4 read from the table at the intersection of ≥ 500 feet with ≥ 1 mile is equal to 6.4%. Thus; 6.4 percent of the observations meet the criteria: "ceiling ≥ 500 feet with visibility ≥ 1 mile, but < 3 miles; or ceiling ≥ 500 feet, but < 1500 feet with visibility ≥ 1 mile."

Since these tabulations are prepared in several ways including by month, by 3-hour groups it is possible to determine diurnal variations of ceiling and visibility limits as well as probabilities of various ceiling-visibility combinations.

PART D

SKY COVER

Cloud amounts prepared from 3-hourly observations are in a percentage frequency distribution of total sky cover and total number of observations. It is presented in two tables as follows:

Table 1 - Cloud amount - all hours and all years combined.

Table 2 - Cloud amount - all hours and all years combined.

Table 1 - Cloud amount (total cloud amount) was not reported by U.S. Services until mid 1949. Data, when available, were punched for Air Force stations beginning in 1946, but were not available for other stations until 1948 or 1949. Weather Bureau stations recorded total cloud amount in overcast beginning sometime in 1945, but few stations have punched data prior to 1948. This report will, of course, be limited to period of available data.

Table 2 - Cloud amount or punched data used for this summary report cloud amounts in tenths. The entire amount was converted to tenths prior to summarizing, and notation is made on the form to indicate the manner of conversion originally reported in observations. The manner of conversion is given below:

ORIGAS	TENTHS
0	0
1	1
2	3
3	4
4	5
5	6
6	8
7	9
8 (or obscured)	10

Table 2 - Cloud amount and total sky cover. Following are the conversions:

Clear converted to 0/10
 Scattered converted to 3/10
 Broken converted to 9/10
 Overcast converted to 10/10
 Obscured converted to 10/10

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NUMBER OF YEARS: _____

CEILING FEET	VISIBILITY - STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING												
20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
4000												
3500												
3000												
2500												
2000												
1800												
1500												
1200												
1000												
900												
800												
700												
600												
500												
400												
300												
200												
100												
U												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STA. ON

SECTION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 5/8
NO CEILING											
≥ 20000											
18000											
15000											
12000											
10000											
9000											
8000											
7000											
6000											
5000											
4000											
3000											
2500											
2000											
1800											
1500											
1200											
1000											
900											
800											
700											
600											
500											
400											
300											
200											
100											
0											

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ YEAR _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .16	≥ .1
NO CEILING																	
40000																	
AI																	
15000																	
AI																	
10000																	
AI																	
14000																	
AI																	
12000																	
AI																	
10000																	
AI																	
9000																	
AI																	
8000																	
AI																	
7000																	
AI																	
6000																	
AI																	
5000																	
AI																	
4500																	
AI																	
4000																	
AI																	
3500																	
AI																	
3000																	
AI																	
2500																	
AI																	
2000																	
AI																	
1500																	
AI																	
1000																	
AI																	
500																	
AI																	
0																	
AI																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS.

VISIBILITY STATUTE MIS

1. *Chlorophyll a* (Chl *a*)
 2. *Chlorophyll b* (Chl *b*)
 3. *Chlorophyll c* (Chl *c*)
 4. *Chlorophyll d* (Chl *d*)
 5. *Chlorophyll e* (Chl *e*)
 6. *Chlorophyll f* (Chl *f*)
 7. *Chlorophyll g* (Chl *g*)
 8. *Chlorophyll h* (Chl *h*)
 9. *Chlorophyll i* (Chl *i*)
 10. *Chlorophyll j* (Chl *j*)
 11. *Chlorophyll k* (Chl *k*)
 12. *Chlorophyll l* (Chl *l*)
 13. *Chlorophyll m* (Chl *m*)
 14. *Chlorophyll n* (Chl *n*)
 15. *Chlorophyll o* (Chl *o*)
 16. *Chlorophyll p* (Chl *p*)
 17. *Chlorophyll q* (Chl *q*)
 18. *Chlorophyll r* (Chl *r*)
 19. *Chlorophyll s* (Chl *s*)
 20. *Chlorophyll t* (Chl *t*)
 21. *Chlorophyll u* (Chl *u*)
 22. *Chlorophyll v* (Chl *v*)
 23. *Chlorophyll w* (Chl *w*)
 24. *Chlorophyll x* (Chl *x*)
 25. *Chlorophyll y* (Chl *y*)
 26. *Chlorophyll z* (Chl *z*)
 27. *Chlorophyll aa* (Chl *aa*)
 28. *Chlorophyll ab* (Chl *ab*)
 29. *Chlorophyll ac* (Chl *ac*)
 30. *Chlorophyll ad* (Chl *ad*)
 31. *Chlorophyll ae* (Chl *ae*)
 32. *Chlorophyll af* (Chl *af*)
 33. *Chlorophyll ag* (Chl *ag*)
 34. *Chlorophyll ah* (Chl *ah*)
 35. *Chlorophyll ai* (Chl *ai*)
 36. *Chlorophyll aj* (Chl *aj*)
 37. *Chlorophyll ak* (Chl *ak*)
 38. *Chlorophyll al* (Chl *al*)
 39. *Chlorophyll am* (Chl *am*)
 40. *Chlorophyll an* (Chl *an*)
 41. *Chlorophyll ao* (Chl *ao*)
 42. *Chlorophyll ap* (Chl *ap*)
 43. *Chlorophyll aq* (Chl *aq*)
 44. *Chlorophyll ar* (Chl *ar*)
 45. *Chlorophyll as* (Chl *as*)
 46. *Chlorophyll at* (Chl *at*)
 47. *Chlorophyll au* (Chl *au*)
 48. *Chlorophyll av* (Chl *av*)
 49. *Chlorophyll aw* (Chl *aw*)
 50. *Chlorophyll ax* (Chl *ax*)
 51. *Chlorophyll ay* (Chl *ay*)
 52. *Chlorophyll az* (Chl *az*)
 53. *Chlorophyll aza* (Chl *aza*)
 54. *Chlorophyll abz* (Chl *abz*)
 55. *Chlorophyll acz* (Chl *acz*)
 56. *Chlorophyll adz* (Chl *adz*)
 57. *Chlorophyll aez* (Chl *aez*)
 58. *Chlorophyll afz* (Chl *afz*)
 59. *Chlorophyll agz* (Chl *agz*)
 60. *Chlorophyll ahz* (Chl *ahz*)
 61. *Chlorophyll aiz* (Chl *aiz*)
 62. *Chlorophyll ajz* (Chl *ajz*)
 63. *Chlorophyll akz* (Chl *akz*)
 64. *Chlorophyll alz* (Chl *alz*)
 65. *Chlorophyll amz* (Chl *amz*)
 66. *Chlorophyll anz* (Chl *anz*)
 67. *Chlorophyll aoz* (Chl *aoz*)
 68. *Chlorophyll apz* (Chl *apz*)
 69. *Chlorophyll aqz* (Chl *aqz*)
 70. *Chlorophyll arz* (Chl *arz*)
 71. *Chlorophyll asz* (Chl *asz*)
 72. *Chlorophyll atz* (Chl *atz*)
 73. *Chlorophyll auz* (Chl *auz*)
 74. *Chlorophyll avz* (Chl *avz*)
 75. *Chlorophyll awz* (Chl *awz*)
 76. *Chlorophyll axz* (Chl *axz*)
 77. *Chlorophyll ayz* (Chl *ayz*)
 78. *Chlorophyll ayz* (Chl *ayz*)
 79. *Chlorophyll azz* (Chl *azz*)
 80. *Chlorophyll azaa* (Chl *aza*)
 81. *Chlorophyll abz* (Chl *abz*)
 82. *Chlorophyll acz* (Chl *acz*)
 83. *Chlorophyll adz* (Chl *adz*)
 84. *Chlorophyll aez* (Chl *aez*)
 85. *Chlorophyll afz* (Chl *afz*)
 86. *Chlorophyll agz* (Chl *agz*)
 87. *Chlorophyll ahz* (Chl *ahz*)
 88. *Chlorophyll aiz* (Chl *aiz*)
 89. *Chlorophyll ajz* (Chl *ajz*)
 90. *Chlorophyll akz* (Chl *akz*)
 91. *Chlorophyll alz* (Chl *alz*)
 92. *Chlorophyll amz* (Chl *amz*)
 93. *Chlorophyll anz* (Chl *anz*)
 94. *Chlorophyll aoz* (Chl *aoz*)
 95. *Chlorophyll apz* (Chl *apz*)
 96. *Chlorophyll aqz* (Chl *aqz*)
 97. *Chlorophyll arz* (Chl *arz*)
 98. *Chlorophyll asz* (Chl *asz*)
 99. *Chlorophyll atz* (Chl *atz*)
 100. *Chlorophyll auz* (Chl *auz*)
 101. *Chlorophyll avz* (Chl *avz*)
 102. *Chlorophyll awz* (Chl *awz*)
 103. *Chlorophyll axz* (Chl *axz*)
 104. *Chlorophyll ayz* (Chl *ayz*)
 105. *Chlorophyll ayz* (Chl *ayz*)
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 130. *Chlorophyll ayz* (Chl *ayz*)
 131. *Chlorophyll ayz* (Chl *ayz*)
 132. *Chlorophyll ayz* (Chl *ayz*

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS:

VISIBILITY STATUTE MILES	
0	1
0	2
0	3
0	4
0	5
0	6
0	7
0	8
0	9
1	0
1	1
1	2
1	3
1	4
1	5
1	6
1	7
1	8
1	9
2	0
2	1
2	2
2	3
2	4
2	5
2	6
2	7
2	8
2	9
3	0
3	1
3	2
3	3
3	4
3	5
3	6
3	7
3	8
3	9
4	0
4	1
4	2
4	3
4	4
4	5
4	6
4	7
4	8
4	9
5	0
5	1
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5	9
6	0
6	1
6	2
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6	4
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6	7
6	8
6	9
7	0
7	1
7	2
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7	5
7	6
7	7
7	8
7	9
8	0
8	1
8	2
8	3
8	4
8	5
8	6
8	7
8	8
8	9
9	0
9	1
9	2
9	3
9	4
9	5
9	6
9	7
9	8
9	9

CEILING VERSUS VISIBILITY

STATION NAME

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1 1/8	≥ 1	≥ 3/4	≥ 1/2	≥ 0
NO CEILING																	
20000																	
18000																	
16000																	
14000																	
12000																	
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0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME YEARS MONTH HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)										
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½
NO. CEILING											
40000											
30000											
20000											
14000											
12000											
10000											
9000											
8000											
7000											
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/5	≥ 1/10	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATE

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING																
At 20000																
At 18000																
At 16000																
At 14000																
At 12000																
At 10000																
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TOTAL NUMBER OF OBSERVATIONS

FORM NO. 1-1967

CEILING VERSUS VISIBILITY

STATION _____ YEARS _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

RECORD NO. _____

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																	
20000																	
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16000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
10000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
10000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

VISIBILITY - STATUTE MILES

CEILING - FEET

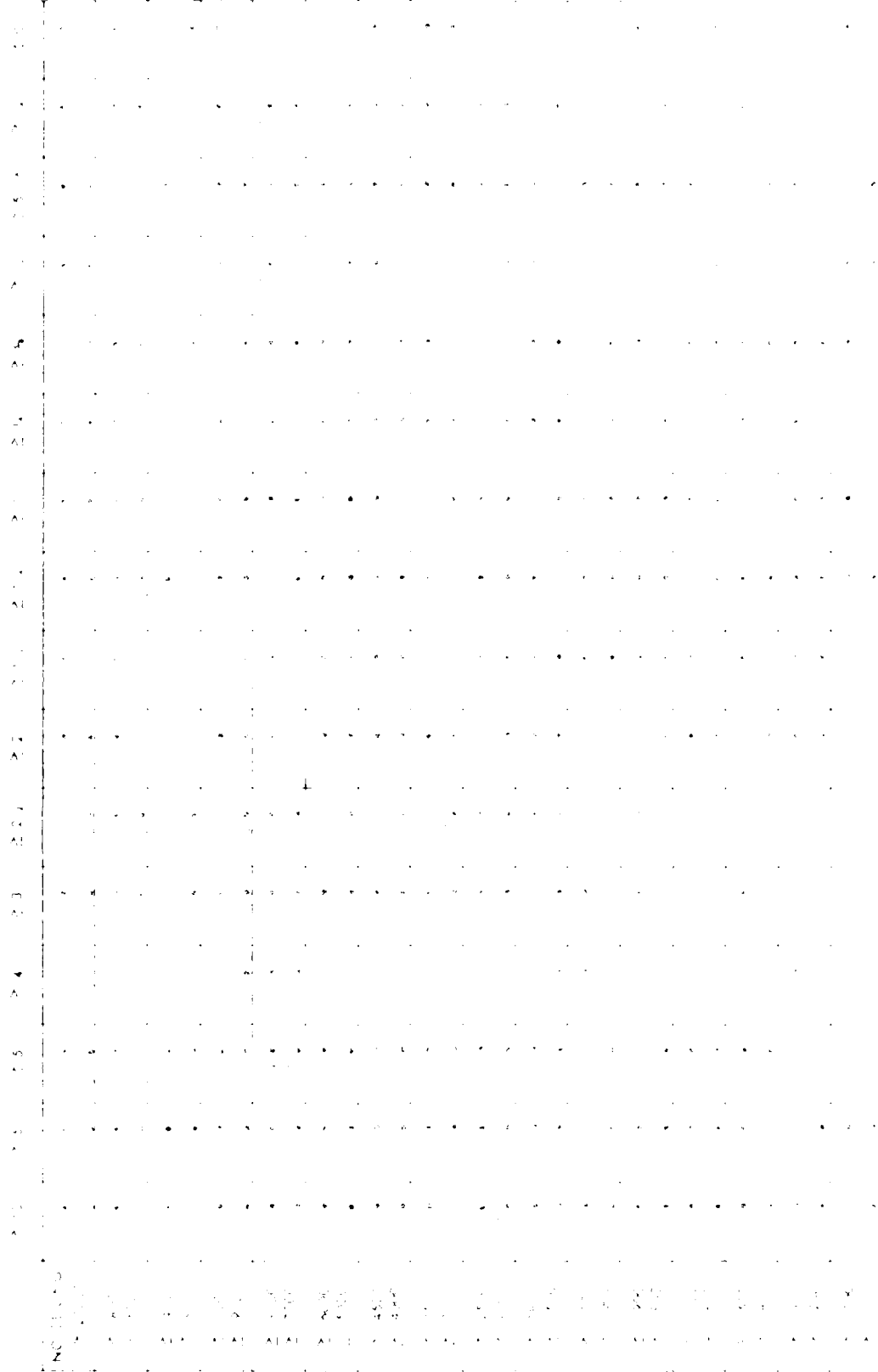
NO. OF OBS.	10000	9000	8000	7000	6000	5000	4000	3000	2000	1000	500	0
10000												
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES



CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

1.0 2.0 3.0 4.0 5.0 6.0 7.0 8.0 9.0 10.0

11.0 12.0 13.0 14.0 15.0 16.0 17.0 18.0 19.0 20.0

21.0 22.0 23.0 24.0 25.0 26.0 27.0 28.0 29.0 30.0

31.0 32.0 33.0 34.0 35.0 36.0 37.0 38.0 39.0 40.0

41.0 42.0 43.0 44.0 45.0 46.0 47.0 48.0 49.0 50.0

51.0 52.0 53.0 54.0 55.0 56.0 57.0 58.0 59.0 60.0

61.0 62.0 63.0 64.0 65.0 66.0 67.0 68.0 69.0 70.0

71.0 72.0 73.0 74.0 75.0 76.0 77.0 78.0 79.0 80.0

81.0 82.0 83.0 84.0 85.0 86.0 87.0 88.0 89.0 90.0

91.0 92.0 93.0 94.0 95.0 96.0 97.0 98.0 99.0 100.0

101.0 102.0 103.0 104.0 105.0 106.0 107.0 108.0 109.0 110.0

111.0 112.0 113.0 114.0 115.0 116.0 117.0 118.0 119.0 120.0

121.0 122.0 123.0 124.0 125.0 126.0 127.0 128.0 129.0 130.0

131.0 132.0 133.0 134.0 135.0 136.0 137.0 138.0 139.0 140.0

141.0 142.0 143.0 144.0 145.0 146.0 147.0 148.0 149.0 150.0

151.0 152.0 153.0 154.0 155.0 156.0 157.0 158.0 159.0 160.0

161.0 162.0 163.0 164.0 165.0 166.0 167.0 168.0 169.0 170.0

171.0 172.0 173.0 174.0 175.0 176.0 177.0 178.0 179.0 180.0

181.0 182.0 183.0 184.0 185.0 186.0 187.0 188.0 189.0 190.0

191.0 192.0 193.0 194.0 195.0 196.0 197.0 198.0 199.0 200.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

FEET

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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

DATE

TIME

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																	
≥ 20000																	
19000																	
18000																	
17000																	
16000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY STATUTE MILES

2.0 2.5 3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 15.5 16.0 16.5 17.0 17.5 18.0 18.5 19.0 19.5 20.0 20.5 21.0 21.5 22.0 22.5 23.0 23.5 24.0 24.5 25.0 25.5 26.0 26.5 27.0 27.5 28.0 28.5 29.0 29.5 30.0 30.5 31.0 31.5 32.0 32.5 33.0 33.5 34.0 34.5 35.0 35.5 36.0 36.5 37.0 37.5 38.0 38.5 39.0 39.5 40.0 40.5 41.0 41.5 42.0 42.5 43.0 43.5 44.0 44.5 45.0 45.5 46.0 46.5 47.0 47.5 48.0 48.5 49.0 49.5 50.0 50.5 51.0 51.5 52.0 52.5 53.0 53.5 54.0 54.5 55.0 55.5 56.0 56.5 57.0 57.5 58.0 58.5 59.0 59.5 60.0 60.5 61.0 61.5 62.0 62.5 63.0 63.5 64.0 64.5 65.0 65.5 66.0 66.5 67.0 67.5 68.0 68.5 69.0 69.5 70.0 70.5 71.0 71.5 72.0 72.5 73.0 73.5 74.0 74.5 75.0 75.5 76.0 76.5 77.0 77.5 78.0 78.5 79.0 79.5 80.0 80.5 81.0 81.5 82.0 82.5 83.0 83.5 84.0 84.5 85.0 85.5 86.0 86.5 87.0 87.5 88.0 88.5 89.0 89.5 90.0 90.5 91.0 91.5 92.0 92.5 93.0 93.5 94.0 94.5 95.0 95.5 96.0 96.5 97.0 97.5 98.0 98.5 99.0 99.5 100.0

1000 900 800 700 600 500 400 300 200 100 0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTHS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	NO CEILING	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
20000	AI																
18000	AI																
16000	AI																
14000	AI																
12000	AI																
10000	AI																
9000	AI																
8000	AI																
7000	AI																
6000	AI																
5000	AI																
4500	AI																
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500	AI																
400	AI																
300	AI																
200	AI																
100	AI																
0	AI																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .1	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
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TOTAL NUMBER OF OBSERVATIONS

STATION NAME: _____ YEAR: _____ MONTH: _____

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .125	≥ .0625
NO CEILING																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

CEILING - FEET

NO. OF OBS.

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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATE

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 15000																
≥ 14000																
≥ 12000																
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≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME
YEAR
MONTH
PLACES LIST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ 0
NO CEILING																
20000	AI															
18000	AI															
16000	AI															
14000	AI															
12000	AI															
10000	AI															
9000	AI															
8000	AI															
7000	AI															
6000	AI															
5000	AI															
4500	AI															
4000	AI															
3500	AI															
3000	AI															
2500	AI															
2000	AI															
1800	AI															
1500	AI															
1200	AI															
1000	AI															
900	AI															
800	AI															
700	AI															
600	AI															
500	AI															
400	AI															
300	AI															
200	AI															
100	AI															
0	AI															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

1. FIELD NUMBER

2. DATE

3. TIME

4. LOCATION

5. OBSERVER

6. WIND DIRECTION

7. WIND VELOCITY

8. CLOUDS

9. MOON

10. STARS

11. PLANETS

12. METEORS

13. AURORA

14. OTHER

15. COMMENTS

16. TOTAL NUMBER OF OBSERVATIONS

17. TOTAL NUMBER OF HOURS

18. TOTAL NUMBER OF DAYS

19. TOTAL NUMBER OF MONTHS

20. TOTAL NUMBER OF YEARS

21. TOTAL NUMBER OF OBSERVATIONS PER HOUR

22. TOTAL NUMBER OF OBSERVATIONS PER DAY

23. TOTAL NUMBER OF OBSERVATIONS PER MONTH

24. TOTAL NUMBER OF OBSERVATIONS PER YEAR

25. TOTAL NUMBER OF OBSERVATIONS PER DECADE

26. TOTAL NUMBER OF OBSERVATIONS PER CENTURY

27. TOTAL NUMBER OF OBSERVATIONS PER MILLENNIUM

28. TOTAL NUMBER OF OBSERVATIONS PER EPOCH

29. TOTAL NUMBER OF OBSERVATIONS PER AGE

30. TOTAL NUMBER OF OBSERVATIONS PER GENERATION

31. TOTAL NUMBER OF OBSERVATIONS PER CIVILIZATION

32. TOTAL NUMBER OF OBSERVATIONS PER CULTURE

33. TOTAL NUMBER OF OBSERVATIONS PER SOCIETY

34. TOTAL NUMBER OF OBSERVATIONS PER COMMUNITY

35. TOTAL NUMBER OF OBSERVATIONS PER GROUP

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

4. S. BULLY STATE MILES

TABLE 1. *Continued*

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS:

V-S-B-L-T STATUE M.E.

TOTAL NUMBER OF TRIPS: 42

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FOR HOURLY OBSERVATIONS

TABLE 1

CEILING	1000	800	600	400	200	100	50	25	10	5	2	1	0
1000	10	5	2	1	0	0	0	0	0	0	0	0	0
800	5	10	5	2	1	0	0	0	0	0	0	0	0
600	2	5	10	5	2	1	0	0	0	0	0	0	0
400	1	2	5	10	5	2	1	0	0	0	0	0	0
200	0	1	2	5	10	5	2	1	0	0	0	0	0
100	0	0	1	2	5	10	5	2	1	0	0	0	0
50	0	0	0	1	2	5	10	5	2	1	0	0	0
25	0	0	0	0	1	2	5	10	5	2	1	0	0
10	0	0	0	0	0	1	2	5	10	5	2	1	0
5	0	0	0	0	0	0	1	2	5	10	5	2	1
2	0	0	0	0	0	0	0	1	2	5	10	5	2
1	0	0	0	0	0	0	0	0	1	2	5	10	5
0	0	0	0	0	0	0	0	0	0	1	2	5	10

• • • • •

2 3 4

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM MONTHLY OBSERVATIONS

PERCENT FREQUENCY

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

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PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

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PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

PERCENT FREQUENCY OF OCCURRENCE

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

STATION NAME

DATE

CEILING	1000	900	800	700	600	500	400	300	200	100	50	25	10	5	2	1	0
1000																	
900																	
800																	
700																	
600																	
500																	
400																	
300																	
200																	
100																	
50																	
25																	
10																	
5																	
2																	
1																	
0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

NO. OF

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1600																
1400																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

STATION NUMBER

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 1/128
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
8000																	
7000																	
6000																	
5000																	
4500																	
4000																	
3500																	
3000																	
2500																	
2000																	
1800																	
1500																	
1200																	
1000																	
900																	
800																	
700																	
500																	
500																	
400																	
300																	
200																	
100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

STATION NUMBER

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS LIST

CEILING FEET	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
4000												
3500												
3000												
2500												
2000												
1800												
1500												
1200												
1000												
900												
800												
700												
600												
500												
400												
300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

STATION NAME

STATE

YEAR

VISIBILITY - STATUTE MILES

0.0

0.1

0.2

0.3

0.4

0.5

0.6

0.7

0.8

0.9

1.0

1.1

1.2

1.3

1.4

1.5

1.6

1.7

1.8

1.9

2.0

2.1

2.2

2.3

2.4

2.5

2.6

2.7

2.8

2.9

3.0

3.1

3.2

3.3

3.4

3.5

3.6

3.7

3.8

3.9

4.0

4.1

4.2

4.3

4.4

4.5

4.6

4.7

4.8

4.9

5.0

5.1

5.2

5.3

5.4

5.5

5.6

5.7

5.8

5.9

6.0

6.1

6.2

6.3

6.4

6.5

6.6

6.7

6.8

6.9

7.0

7.1

7.2

7.3

7.4

7.5

7.6

7.7

7.8

7.9

8.0

8.1

8.2

8.3

8.4

8.5

8.6

8.7

8.8

8.9

9.0

9.1

9.2

9.3

9.4

9.5

9.6

9.7

9.8

9.9

10.0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .1
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
4000												
3500												
3000												
2500												
2000												
1500												
1000												
500												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE: _____ TIME: _____

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .16	≥ .1	≥ .05	≥ .025	≥ .01
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
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2500																
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1600																
1400																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

ELEVATION Feet	VISIBILITY - STATUTE MILES															
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
8000																
6000																
4000																
2000																
1000																
500																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

VISIBILITY STATUTE MILES

CEILING
FEET

≥ 10 ≥ 9 ≥ 8 ≥ 7 ≥ 6 ≥ 5 ≥ 4 ≥ 3 ≥ 2 ≥ 1 ≥ 1/2 ≥ 1/4 ≥ 1/8 ≥ 1/16 ≥ 1/32 ≥ 1/64

NO CEILING

20000

15000

10000

7500

5000

3000

2000

1500

1000

800

600

400

300

200

100

0

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

WEATHER

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

CEILING
FEET

NO CEILING

20000

18000

16000

14000

12000

10000

9000

8000

7000

6000

5000

4500

4000

3500

3000

2500

2000

1500

1000

500

0

NO DATA

NO DATA

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NO DATA

TOTAL NUMBER OF OBSERVATIONS

AD-A150 378 SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS) 3/4
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

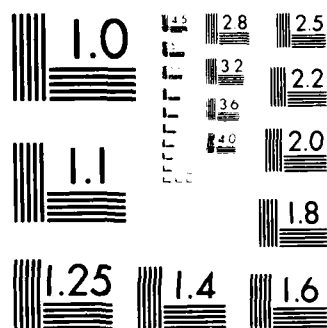
3/4

UNCLASSIFIED

F/G 4/2

NL

A 10x10 grid of squares. The top row (row 1) is shaded gray. The first square of the second row (row 2, column 1) is also shaded gray. All other squares are white.



MICROCOPY RESOLUTION TEST CHART
 NATIONAL BUREAU OF STANDARDS-1963-A

CEILING VERSUS VISIBILITY

STATION NAME
YEARS
MONTH
HOURS
1 2 3 4 5 6 7 8 9 10 11 12

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
≥ 20000												
18000												
16000												
14000												
12000												
10000												
9000												
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7000												
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700												
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500												
400												
300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

DIRTAVOUEANDET 5005

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 0	≥ 0	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
8000																	
7000																	
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200																	
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0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

NORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LIST

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 5/16	≥ 1/4	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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500																
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200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DATE: AUGUST 1950

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

STATION

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
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200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

FORM 1-60 (REV. 1-59) 5010-108

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS - L S T

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
≥ 7000																
≥ 6000																
≥ 5000																
≥ 4500																
≥ 4000																
≥ 3500																
≥ 3000																
≥ 2500																
≥ 2000																
≥ 1800																
≥ 1500																
≥ 1200																
≥ 1000																
≥ 900																
≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCANMET SWOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DETACHMENT, LANGLEY FIELD, VA

STATION

STATION NAME

YEARS

MONTH

HOURS 11 57

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ ¼	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION NAME _____ YEAR _____ MONTH _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
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1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS _____

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE, DETACHMENT 1, WASHINGTON, D.C.

STATION

STATION NAME

YEARS

MONTH

HOURS (LST)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16
NO CEILING													≥ 0
≥ 20000													≥ 0
18000													≥ 0
16000													≥ 0
14000													≥ 0
12000													≥ 0
10000													≥ 0
9000													≥ 0
8000													≥ 0
7000													≥ 0
6000													≥ 0
5000													≥ 0
4500													≥ 0
4000													≥ 0
3500													≥ 0
3000													≥ 0
2500													≥ 0
2000													≥ 0
1800													≥ 0
1500													≥ 0
1200													≥ 0
1000													≥ 0
900													≥ 0
800													≥ 0
700													≥ 0
600													≥ 0
500													≥ 0
400													≥ 0
300													≥ 0
200													≥ 0
100													≥ 0
0													≥ 0

TOTAL NUMBER OF OBSERVATIONS

DIPNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURE (L.S.T.)

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 5/16	≥ 0
NO CEILING														
≥ 20000														
18000														
16000														
14000														
12000														
10000														
9000														
8000														
7000														
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100														
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LST

CEILING (FEET)	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0	≥ 1	≥ ½	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
8000																	
7000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME
MONTH
HOURS

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

CEILING VERSUS VISIBILITY

STATION _____ YEARS _____ MONTH _____ HOURS _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
14000																	
12000																	
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TOTAL NUMBER OF OBSERVATIONS _____

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
20000																
18000																
16000																
14000																
12000																
10000																
9000																
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TOTAL NUMBER OF OBSERVATIONS

STATION NAME

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)																
	NO CEILING	> 10	> 6	> 5	> 4	> 3	> 2 1/2	> 2	> 1 1/2	> 1	> 3/4	> 1/2	> 1/4	> 1/8	> 1/16	> 1/32	> 0
20000	AI																
18000	AI																
16000	AI																
14000	AI																
12000	AI																
10000	AI																
9000	AI																
8000	AI																
7000	AI																
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400	AI																
300	AI																
200	AI																
100	AI																
0	AI																

TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT - 5705

CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
NO CEILING																	
20000																	
18000																	
16000																	
14000																	
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TOTAL NUMBER OF OBSERVATIONS

CONTINUED ON REVERSE

CEILING VERSUS VISIBILITY

STATION NAME
 YEARS
 MONTH
 HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)													
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING														
≥ 20000														
≥ 18000														
16000														
14000														
12000														
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

2

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURLY

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ 0
NO CEILING													
≥ 20000													
≥ 18000													
≥ 16000													
≥ 14000													
≥ 12000													
≥ 10000													
≥ 9000													
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≥ 100													
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH

CEILING FEET	VISIBILITY STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING																
20000																
18000																
16000																
14000																
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TOTAL NUMBER OF OBSERVATIONS

DATE OF RECORDING

CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	NO CEILING	21	210	215	216	217	218	219	220	225	230	235	240	245	250	255	260
20000	AL																
18000	AL																
16000	AL																
14000	AL																
12000	AL																
10000	AL																
9000	AL																
8000	AL																
7000	AL																
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700	AL																
600	AL																
500	AL																
400	AL																
300	AL																
200	AL																
100	AL																
0	AL																

TOTAL NUMBER OF OBSERVATIONS

UNITED STATES GOVERNMENT

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.4	≥ 1.3	≥ 1.2	≥ 1.1	≥ 1
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

TELETYPE

WORTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1 1/4	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																	
≥ 20000																	
≥ 18000																	
≥ 16000																	
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≥ 100																	
≥ 0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ .015	≥ .01
NO CEILING																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																	
≥ 20000																	
18000																	
16000																	
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12000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME
 YEAR
 MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING (FEET)	VISIBILITY (STATUTE MILES)												
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 0
NO CEILING													
≥ 20000													
18000													
16000													
14000													
12000													
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVOCEANDET SMOS

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
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0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY STATUTE MILES																
	NO CEILING	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
20000	AL																
18000	AL																
16000	AL																
14000	AL																
12000	AL																
10000	AL																
9000	AL																
8000	AL																
7000	AL																
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500	AL																
400	AL																
300	AL																
200	AL																
100	AL																
0	AL																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	NO CEILING	1	2	3	4	5	6	10	1	2	3	4	5	6	10	1
20000	AI															
18000	AI															
16000	AI															
14000	AI															
12000	AI															
10000	AI															
9000	AI															
8000	AI															
7000	AI															
6000	AI															
5000	AI															
4500	AI															
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700	AI															
600	AI															
500	AI															
400	AI															
300	AI															
200	AI															
100	AI															
0	AI															

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEAR

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
NO CEILING																	
20000																	
18000																	
16000																	
14000																	
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TOTAL NUMBER OF OBSERVATIONS

OFFICIAL REPORT

CEILING VERSUS VISIBILITY

STATION

STATE OR NAVAL

YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	NO CEILING	210	216	221	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
20000	AI																				
18000	AI																				
16000	AI																				
14000	AI																				
12000	AI																				
10000	AI																				
9000	AI																				
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400	AI																				
300	AI																				
200	AI																				
100	AI																				
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TOTAL NUMBER OF OBSERVATIONS

DISPATCH REPORT

CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .01
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
≥ 9000																
≥ 8000																
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≥ 800																
≥ 700																
≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE DEPARTMENT OF THE NAVY

STATION NAME: _____ YEAR: _____ MONTH: _____
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)
 NAVAL WEATHER SERVICE DEPARTMENT OF THE NAVY

CEILING (FEET)	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0	≥ 0
NO CEILING																
≥ 20000																
≥ 18000																
≥ 16000																
≥ 14000																
≥ 12000																
≥ 10000																
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≥ 600																
≥ 500																
≥ 400																
≥ 300																
≥ 200																
≥ 100																
≥ 0																

TOTAL NUMBER OF OBSERVATIONS

DIRT JAVOUEANDET 5205

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	> 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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TOTAL NUMBER OF OBSERVATIONS

GRAPHICALLY PREPARED BY

CEILING VERSUS VISIBILITY

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

VISIBILITY STATUTE MILES

CEILING FEET

	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	
NO. OF																																
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18000																																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

DATE

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ .025	≥ .015	≥ .01
NO CEILING																	
20000																	
18000																	
16000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION _____ MONTH _____
 STATION NAME _____ YEARS _____
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ .15	≥ .1	≥ .05	≥ 0
NO CEILING																	
20000																	
18000																	
16000																	
14000																	
12000																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY, STATUTE MILES															
	≥ 10	7.5	7.4	7.3	7.2	7.1	7.0	6.9	6.8	6.7	6.6	6.5	6.4	6.3	6.2	6.1
NO DATA																
22000																
20000																
18000																
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14000																
12000																
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CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. OF

CEILING FEET	2-10	2-6	2-5	2-4	2-3	2-2	2-1	2-1/2	2-1	2-1/4	2-1/8	2-1/16	2-1/32	2-1/64
NO. CEILING														
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0														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

VISIBILITY - STATUTE MILES

CEILING - FEET

NO CEILING

20000

15000

10000

7500

5000

3000

2000

1500

1000

750

500

300

200

100

0

2.0 2.1 2.2 2.3 2.4 2.5 2.6 2.7 2.8 2.9 3.0 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 4.0 4.1 4.2 4.3 4.4 4.5 4.6 4.7 4.8 4.9 5.0

TOTAL NUMBER OF OBSERVATIONS

DIFFERENCE BETWEEN

CEILING VERSUS VISIBILITY

STATION NAME

STATION

DATE

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 9	≥ 8	≥ 7	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2	≥ 1	≥ 1/2	≥ 1/4	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64
NO CEILING																
20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1.25	≥ 1	≥ .75	≥ .5	≥ .25	≥ .15	≥ .1	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
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TOTAL NUMBER OF OBSERVATIONS

ORIGINATOR NAME

SMOS

CEILING VERSUS VISIBILITY

NAVAL WEATHER SERVICE (FACILITY ADDRESS)

STATION NAME: _____ YEARS: _____ MONTH: _____ HOURS: _____

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
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TOTAL NUMBER OF OBSERVATIONS

DIRNAVUOCEANMET SMOS

CEILING VERSUS VISIBILITY

STATION MONTH YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 0	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/5	≥ 1/10	≥ 1/20	≥ 0
NO CEILING																	
20000																	
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300																	
200																	
100																	
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATE OR NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1¼	≥ 1	≥ ¾	≥ ½
NO CEILING												
20000												
18000												
16000												
14000												
12000												
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100												
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TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS LIST

CEILING FEET	VISIBILITY - STATUTE MILES																
	NO CEILING	> 10	> 6	> 5	> 4	> 3	> 2 1/2	> 2	> 1 1/2	> 1 1/4	> 1 1/2	> 1 1/4	> 1 1/4	> 1 1/4	> 1 1/4	> 1 1/4	> 1 1/4
20000	AI																
18000	AI AI																
16000	AI AI																
14000	AI AI																
12000	AI AI																
10000	AI AI																
9000	AI AI																
8000	AI AI																
7000	AI AI																
6000	AI AI																
5000	AI AI																
4500	AI AI																
4000	AI AI																
3500	AI AI																
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2500	AI AI																
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1800	AI AI																
1500	AI AI																
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800	AI AI																
700	AI AI																
600	AI AI																
500	AI AI																
400	AI AI																
300	AI AI																
200	AI AI																
100	AI AI																
0	AI AI																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____ MONTH: _____

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
NO CEIL. NO																	
20000																	
18000																	
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300																	
200																	
100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0	8.5	9.0	9.5	10.0
NO CEILING																	
20000																	
18000																	
16000																	
14000																	
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400																	
300																	
200																	
100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

STATION - CEILING - VISIBILITY

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES										
	1/10	1/5	1/4	1/3	1/2	2/5	1/2	3/4	1	1 1/4	1 1/2
NO CEILING											
20000											
18000											
16000											
14000											
12000											
10000											
9000											
8000											
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600											
500											
400											
300											
200											
100											
0											

TOTAL NUMBER OF OBSERVATIONS _____

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

NO. OF HOURS

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
NO CEILING																	
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18000																	
16000																	
14000																	
12000																	
10000																	
9000																	
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400																	
300																	
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100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

DATE OF OBSERVATION

CEILING VERSUS VISIBILITY

STATION NAME: _____ YEAR: _____
 PERCENTAGE FREQUENCY OF OCCURRENCE
 (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES											
	NO CEILING	1/10	1/8	1/4	1/2	3/4	1	1 1/4	1 1/2	2	3	4
20000	AL											
18000	AL											
16000	AL											
14000	AL											
12000	AL											
10000	AL											
9000	AL											
8000	AL											
7000	AL											
6000	AL											
5000	AL											
4500	AL											
4000	AL											
3500	AL											
3000	AL											
2500	AL											
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700	AL											
600	AL											
500	AL											
400	AL											
300	AL											
200	AL											
100	AL											
0	AL											

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

HOURS

CEILING FEET	VISIBILITY (STATUTE MILES)											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2.5	≥ 2	≥ 1.5	≥ 1	≥ .5	≥ .25	≥ 0
NO CEILING												
≥ 20000												
≥ 18000												
≥ 16000												
≥ 14000												
≥ 12000												
≥ 10000												
≥ 9000												
≥ 8000												
≥ 7000												
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≥ 800												
≥ 700												
≥ 600												
≥ 500												
≥ 400												
≥ 300												
≥ 200												
≥ 100												
0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES																
	2.0	2.1	2.2	2.3	2.4	2.5	2.6	2.7	2.8	2.9	3.0	3.1	3.2	3.3	3.4	3.5	3.6
NO CEILING																	
20000																	
18000																	
16000																	
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100																	
0																	

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME
STATION
YEARS
MONTH
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES											
	MI 0	MI 1	MI 2	MI 3	MI 4	MI 5	MI 6	MI 7	MI 8	MI 9	MI 10	MI 11
NO CEILING												
20000												
18000												
16000												
14000												
12000												
10000												
9000												
8000												
7000												
6000												
5000												
4500												
4000												
3500												
3000												
2500												
2000												
1800												
1500												
1200												
1000												
900												
800												
700												
600												
500												
400												
300												
200												
100												
0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME

STATION

YEAR

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2 1/2	≥ 2	≥ 1 1/2	≥ 1	≥ 3/4	≥ 1/2	≥ 1/4	≥ 1/8	≥ 5/16	≥ 1/8	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION MONTH
YEARS

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	NO CEILING	AT	20000	18000	16000	14000	12000	10000	9000	8000	7000	6000	5000	4500	4000	3500
NO CEILING	AT	20000														
AT	20000															
20000	AT	20000														
18000	AT	20000														
16000	AT	20000														
14000	AT	20000														
12000	AT	20000														
10000	AT	20000														
9000	AT	20000														
8000	AT	20000														
7000	AT	20000														
6000	AT	20000														
5000	AT	20000														
4500	AT	20000														
4000	AT	20000														
3500	AT	20000														
3000	AT	20000														
2500	AT	20000														
2000	AT	20000														
1800	AT	20000														
1500	AT	20000														
1200	AT	20000														
1000	AT	20000														
900	AT	20000														
800	AT	20000														
700	AT	20000														
600	AT	20000														
500	AT	20000														
400	AT	20000														
300	AT	20000														
200	AT	20000														
100	AT	20000														
0	AT	20000														

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION NAME
STATION
TEARS
MONTH
HOURS

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES											
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼
NO CEILING												
≥ 20000												
≥ 18000												
≥ 16000												
≥ 14000												
≥ 12000												
≥ 10000												
≥ 9000												
≥ 8000												
≥ 7000												
≥ 6000												
≥ 5000												
≥ 4500												
≥ 4000												
≥ 3500												
≥ 3000												
≥ 2500												
≥ 2000												
≥ 1800												
≥ 1500												
≥ 1200												
≥ 1000												
≥ 900												
≥ 800												
≥ 700												
≥ 600												
≥ 500												
≥ 400												
≥ 300												
≥ 200												
≥ 100												
0												

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION YEARS MONTH HOURS LST

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY - STATUTE MILES															
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 0
NO CEILING																
≥ 20000																
18000																
16000																
14000																
12000																
10000																
9000																
8000																
7000																
6000																
5000																
4500																
4000																
3500																
3000																
2500																
2000																
1800																
1500																
1200																
1000																
900																
800																
700																
600																
500																
400																
300																
200																
100																
0																

TOTAL NUMBER OF OBSERVATIONS

CEILING VERSUS VISIBILITY

STATION

STATION NAME

YEARS

MONTH

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

CEILING FEET	VISIBILITY (STATUTE MILES)																
	≥ 10	≥ 6	≥ 5	≥ 4	≥ 3	≥ 2½	≥ 2	≥ 1½	≥ 1	≥ ¾	≥ ½	≥ ¼	≥ 1/8	≥ 1/16	≥ 1/32	≥ 1/64	≥ 0
NO CEILING																	
≥ 20000																	
≥ 18000																	
≥ 16000																	
≥ 14000																	
≥ 12000																	
≥ 10000																	
≥ 9000																	
≥ 8000																	
≥ 7000																	
≥ 6000																	
≥ 5000																	
≥ 4500																	
≥ 4000																	
≥ 3500																	
≥ 3000																	
≥ 2500																	
≥ 2000																	
≥ 1800																	
≥ 1500																	
≥ 1200																	
≥ 1000																	
≥ 900																	
≥ 800																	
≥ 700																	
≥ 600																	
≥ 500																	
≥ 400																	
≥ 300																	
≥ 200																	
≥ 100																	
≥ 0																	

TOTAL NUMBER OF OBSERVATIONS

CIRNAVUCEANDET SMOUS

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	NO. OF OBS.	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
JAN	10	10	10	10	10	10	10	10	10	10	10	10	10	10
FEB	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MAR	10	10	10	10	10	10	10	10	10	10	10	10	10	10
APR	10	10	10	10	10	10	10	10	10	10	10	10	10	10
MAY	10	10	10	10	10	10	10	10	10	10	10	10	10	10
JUN	10	10	10	10	10	10	10	10	10	10	10	10	10	10
JUL	10	10	10	10	10	10	10	10	10	10	10	10	10	10
AUG	10	10	10	10	10	10	10	10	10	10	10	10	10	10
SEP	10	10	10	10	10	10	10	10	10	10	10	10	10	10
OCT	10	10	10	10	10	10	10	10	10	10	10	10	10	10
NOV	10	10	10	10	10	10	10	10	10	10	10	10	10	10
DEC	10	10	10	10	10	10	10	10	10	10	10	10	10	10
TOTAL	10	10	10	10	10	10	10	10	10	10	10	10	10	10

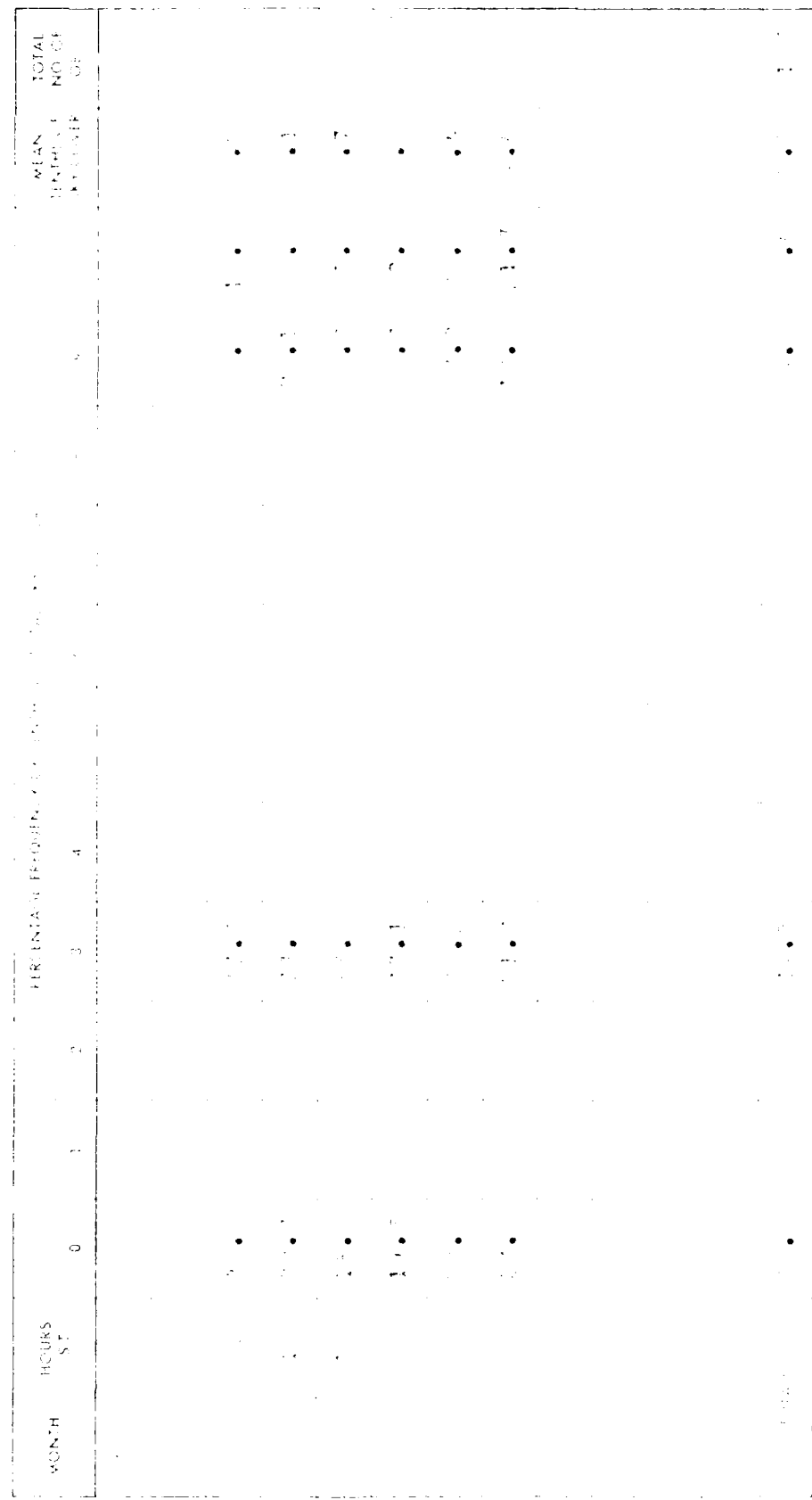
SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

WIND DIRECTION	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
000	1.0											1.0	7.0
030	1.0			2.0								2.0	2.0
060	1.0			2.0								2.0	2.0
090	1.0			2.0								2.0	2.0
120	1.0			2.0								2.0	2.0
150	1.0			2.0								2.0	2.0
TOTALS	6.0			8.0								10.0	30.0

SKY COVER

PERCENTAGE FREQUENCY OF SKY COVER
FROM HOURLY OBSERVATIONS



SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

NO. OF OBSERVATIONS	1	2	3	4	5	6	7	8	9	10	MEAN PERCENTAGE OF SKY COVER	TOTAL NO. OF OBSERVATIONS
1	100										100	1
2	100	100									100	2
3	100	100	100								100	3
4	100	100	100	100							100	4
5	100	100	100	100	100						100	5
6	100	100	100	100	100	100					100	6
7	100	100	100	100	100	100	100				100	7
8	100	100	100	100	100	100	100	100			100	8
9	100	100	100	100	100	100	100	100	100		100	9
10	100	100	100	100	100	100	100	100	100	100	100	10

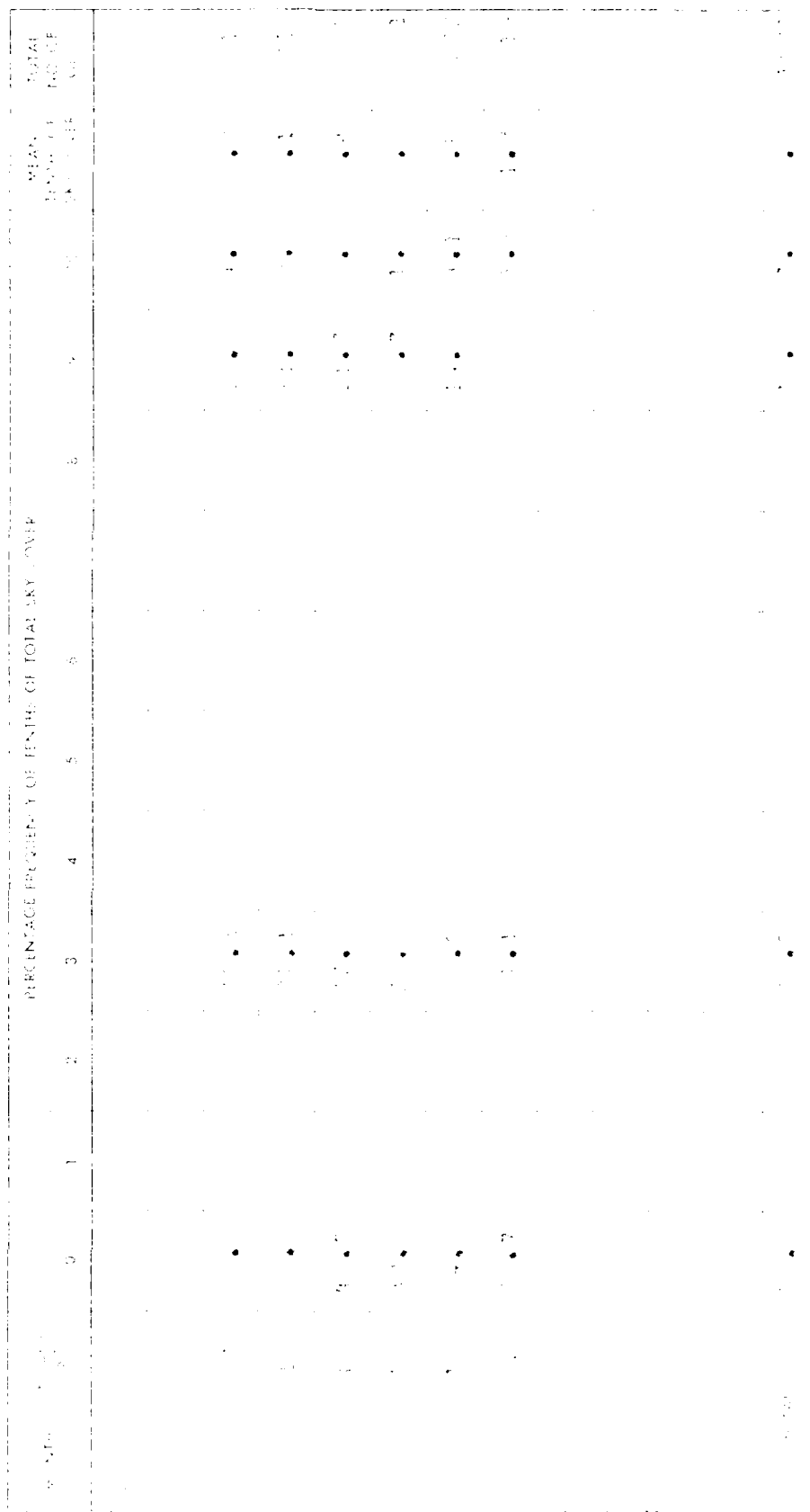
SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
OF SKY COVER OBSERVATIONS

WIND DIRECTION	PERCENTAGE FREQUENCY OF OCCURRENCE OF SKY COVER										MEAN PERCENTAGE FREQUENCY	TOTAL NO. OF OBSERVATIONS
	0	1	2	3	4	5	6	7	8	9		
0	1	1	1	1	1	1	1	1	1	1	1	1
1	1	1	1	1	1	1	1	1	1	1	1	1
2	1	1	1	1	1	1	1	1	1	1	1	1
3	1	1	1	1	1	1	1	1	1	1	1	1
4	1	1	1	1	1	1	1	1	1	1	1	1
5	1	1	1	1	1	1	1	1	1	1	1	1
6	1	1	1	1	1	1	1	1	1	1	1	1
7	1	1	1	1	1	1	1	1	1	1	1	1
8	1	1	1	1	1	1	1	1	1	1	1	1
9	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1
31	1	1	1	1	1	1	1	1	1	1	1	1
32	1	1	1	1	1	1	1	1	1	1	1	1
33	1	1	1	1	1	1	1	1	1	1	1	1
34	1	1	1	1	1	1	1	1	1	1	1	1
35	1	1	1	1	1	1	1	1	1	1	1	1
36	1	1	1	1	1	1	1	1	1	1	1	1
37	1	1	1	1	1	1	1	1	1	1	1	1
38	1	1	1	1	1	1	1	1	1	1	1	1
39	1	1	1	1	1	1	1	1	1	1	1	1
40	1	1	1	1	1	1	1	1	1	1	1	1
41	1	1	1	1	1	1	1	1	1	1	1	1
42	1	1	1	1	1	1	1	1	1	1	1	1
43	1	1	1	1	1	1	1	1	1	1	1	1
44	1	1	1	1	1	1	1	1	1	1	1	1
45	1	1	1	1	1	1	1	1	1	1	1	1
46	1	1	1	1	1	1	1	1	1	1	1	1
47	1	1	1	1	1	1	1	1	1	1	1	1
48	1	1	1	1	1	1	1	1	1	1	1	1
49	1	1	1	1	1	1	1	1	1	1	1	1
50	1	1	1	1	1	1	1	1	1	1	1	1
51	1	1	1	1	1	1	1	1	1	1	1	1
52	1	1	1	1	1	1	1	1	1	1	1	1
53	1	1	1	1	1	1	1	1	1	1	1	1
54	1	1	1	1	1	1	1	1	1	1	1	1
55	1	1	1	1	1	1	1	1	1	1	1	1
56	1	1	1	1	1	1	1	1	1	1	1	1
57	1	1	1	1	1	1	1	1	1	1	1	1
58	1	1	1	1	1	1	1	1	1	1	1	1
59	1	1	1	1	1	1	1	1	1	1	1	1
60	1	1	1	1	1	1	1	1	1	1	1	1
61	1	1	1	1	1	1	1	1	1	1	1	1
62	1	1	1	1	1	1	1	1	1	1	1	1
63	1	1	1	1	1	1	1	1	1	1	1	1
64	1	1	1	1	1	1	1	1	1	1	1	1
65	1	1	1	1	1	1	1	1	1	1	1	1
66	1	1	1	1	1	1	1	1	1	1	1	1
67	1	1	1	1	1	1	1	1	1	1	1	1
68	1	1	1	1	1	1	1	1	1	1	1	1
69	1	1	1	1	1	1	1	1	1	1	1	1
70	1	1	1	1	1	1	1	1	1	1	1	1
71	1	1	1	1	1	1	1	1	1	1	1	1
72	1	1	1	1	1	1	1	1	1	1	1	1
73	1	1	1	1	1	1	1	1	1	1	1	1
74	1	1	1	1	1	1	1	1	1	1	1	1
75	1	1	1	1	1	1	1	1	1	1	1	1
76	1	1	1	1	1	1	1	1	1	1	1	1
77	1	1	1	1	1	1	1	1	1	1	1	1
78	1	1	1	1	1	1	1	1	1	1	1	1
79	1	1	1	1	1	1	1	1	1	1	1	1
80	1	1	1	1	1	1	1	1	1	1	1	1
81	1	1	1	1	1	1	1	1	1	1	1	1
82	1	1	1	1	1	1	1	1	1	1	1	1
83	1	1	1	1	1	1	1	1	1	1	1	1
84	1	1	1	1	1	1	1	1	1	1	1	1
85	1	1	1	1	1	1	1	1	1	1	1	1
86	1	1	1	1	1	1	1	1	1	1	1	1
87	1	1	1	1	1	1	1	1	1	1	1	1
88	1	1	1	1	1	1	1	1	1	1	1	1
89	1	1	1	1	1	1	1	1	1	1	1	1
90	1	1	1	1	1	1	1	1	1	1	1	1
91	1	1	1	1	1	1	1	1	1	1	1	1
92	1	1	1	1	1	1	1	1	1	1	1	1
93	1	1	1	1	1	1	1	1	1	1	1	1
94	1	1	1	1	1	1	1	1	1	1	1	1
95	1	1	1	1	1	1	1	1	1	1	1	1
96	1	1	1	1	1	1	1	1	1	1	1	1
97	1	1	1	1	1	1	1	1	1	1	1	1
98	1	1	1	1	1	1	1	1	1	1	1	1
99	1	1	1	1	1	1	1	1	1	1	1	1
100	1	1	1	1	1	1	1	1	1	1	1	1

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS



SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE FROM HOURLY OBSERVATIONS

MONTH	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
1	10	10	10	10	10	10	10	10	10	10	10	10	10
2	10	10	10	10	10	10	10	10	10	10	10	10	10
3	10	10	10	10	10	10	10	10	10	10	10	10	10
4	10	10	10	10	10	10	10	10	10	10	10	10	10
5	10	10	10	10	10	10	10	10	10	10	10	10	10
6	10	10	10	10	10	10	10	10	10	10	10	10	10
7	10	10	10	10	10	10	10	10	10	10	10	10	10
8	10	10	10	10	10	10	10	10	10	10	10	10	10
9	10	10	10	10	10	10	10	10	10	10	10	10	10
10	10	10	10	10	10	10	10	10	10	10	10	10	10
11	10	10	10	10	10	10	10	10	10	10	10	10	10
12	10	10	10	10	10	10	10	10	10	10	10	10	10
TOTAL	10	10	10	10	10	10	10	10	10	10	10	10	10

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
BASED ON HOURLY OBSERVATIONS

MONTH	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
JAN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FEB	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
APR	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MAY	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUN	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
JUL	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
AUG	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
SEP	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OCT	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
NOV	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
DEC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	HOURS OBS.	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
JAN	1												
FEB	1												
MAR	1												
APR	1												
MAY	1												
JUN	1												
JUL	1												
AUG	1												
SEP	1												
OCT	1												
NOV	1												
DEC	1												
TOTAL													

SKY COVER

PER CENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

MONTH	THURS	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO OF OBS
JAN	1.0									0.1	0.5	0.7	10
FEB	1.0									0.7	11.0	0.9	10
MAR	2.0									0.0	17.0	0.0	10
APR	1.0									0.7	11.0	0.7	10
MAY	1.0									0.0	17.0	0.0	10
JUN	2.0									0.0	11.0	0.7	10
TOTAL										0.0	11.0	0.7	10

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
JAN	1.0			1.0							1.0	1.0	1
FEB	1.0			1.0							1.0	1.0	1
MAR	1.0			1.0							1.0	1.0	1
APR	1.0			1.0							1.0	1.0	1
MAY	1.0			1.0							1.0	1.0	1
JUN	1.0			1.0							1.0	1.0	1
JUL	1.0			1.0							1.0	1.0	1
AUG	1.0			1.0							1.0	1.0	1
SEP	1.0			1.0							1.0	1.0	1
OCT	1.0			1.0							1.0	1.0	1
NOV	1.0			1.0							1.0	1.0	1
DEC	1.0			1.0							1.0	1.0	1
TOTAL	1.0			1.0							1.0	1.0	1

SKY COVER

PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	0	1	2	3	4	5	6	7	8	9	10	MEAN TENTHS OF SKY COVER	TOTAL NO. OF OBS.
JAN	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
FEB	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
MAR	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
APR	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
MAY	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
JUN	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
JUL	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
AUG	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
SEP	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
OCT	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
NOV	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
DEC	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111
TOTAL	111	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	111

PART E

PSYCHROMETRIC SUMMARIES

In this section are presented various summaries of dry- and wet-bulb temperatures, dew points, and relative humidity. The order and manner of presentation follows:

1. Cumulative percentage frequency of occurrence - derived from daily observations and presented by month and annual for all years combined. These tabulations provide the cumulative percentage frequency to tenths of temperature of 5-degree Fahrenheit increments, plus mean temperature, standard deviation, and total number of observations in three separate tables as follows:
 - a. Daily maximum temperature
 - b. Daily minimum temperature
 - c. Daily mean temperature
2. Extreme values - derived from daily observations with extreme value given for each year and month of record available. Extremes are provided for a month if all days for a month contain valid observations. All months for a year must have valid extremes before the ANNUAL value is selected for that year. Means and standard deviations are computed for months and annual when four or more values are present for any column. Two tables of daily extreme temperatures are prepared:
 - a. Extreme maximum temperature
 - b. Extreme minimum temperature

NOTE: A supplementary list also provides extreme temperatures when less than a full month is reported.
3. Humidity ratio percentage frequency distribution and comparison of wet-bulb depression with humidity ratio - This tabulation is derived from 2-hourly observations and is presented by month and annual, all years and all years combined. The following information is provided:
 - a. The main body of the summary consists of a bivariate percentage frequency distribution of wet-bulb depression in 17 classes spread horizontally; by 2-degree intervals of dry-bulb temperature vertically. Also provided for each dry-bulb temperature interval is the number of observations with dry-bulb and wet-bulb temperatures combined; and again for dry-bulb, wet-bulb, and dew-point temperatures separately. Total observations for these four items is also provided in two lines at end of each tabulation table, which may require two pages in some cases.

NOTE: A percentage frequency in this table of 1.0 represents one or more occurrences amounting to less than .05 percent.

b. Statistical data for the individual elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures are shown in the section at the bottom left of the forms. These consist of the sum of squares ($\sum X^2$), sums of values ($\sum X$), means (\bar{X}), and standard deviations (σx). The number of observations used in the computations for each element is also shown.

c. At the lower right of the form are given the mean number of hours of occurrence for six ranges of dry-bulb, wet-bulb, and dew-point temperatures, and total number of hours possible in the period represented. Mean number of hours is shown to tenths and indicates mean number of hours per year in the annual summary, or mean number of hours per month in the tabulations by month.

NOTE: Wet-bulb temperature usually was not reported prior to 1946. Relative humidity usually was not reported prior to 1949, nor subsequent to June 1956; and was computed by machine methods for observations recorded during these periods. All values of dew-point temperature and relative humidity are with respect to water, unless otherwise indicated.

d. Means and standard deviations - These tabulations are derived from hourly observations and present the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

- a. Dry-bulb temperature
- b. Wet-bulb temperature
- c. Dew-point temperature

e. Cumulative percentage frequency of occurrence of relative humidity - This summary is derived from hourly observations and presents the cumulative percentage frequency of occurrence of relative humidity by increment. Five classes, plus the mean relative humidity and total number of observations in two tables.

f. Table 1 is prepared by month and annual, all years combined, with month being the vertical argument.

g. Table 2 is prepared by standard 3-hour groups, with the hour groups being the vertical argument and a separate page for each month. All years are also combined for this summary.

h. Summary of all elements of relative humidity, dry-bulb, wet-bulb, and dew-point temperatures - This summary is prepared by month and annual, all years combined, with month being the vertical argument. It presents the mean, standard deviation, and total number of observations for the eight standard 3-hour groups, by month and annual and again at the bottom for all hours combined. Records for all years available are combined. Tables are prepared for the following:

DAILY TEMPERATURES

STATION NAME: _____ YEARS: _____
 CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
 FROM DAILY OBSERVATIONS

TEMP °F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1													
2													
3													
4													
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DAILY TEMPERATURES

HEADS
CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM DAILY OBSERVATIONS

TEMP OF

TEMP OF

TEMP OF	AN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	ANN A
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DAILY AVERAGE/EXTREME TEMPERATURES

3

UNAV. DEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

3

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D'RMAYOCIANMFT-SMOS

DIRNAVOCEANMET--SMOS

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SUBMITTAL ADDRESS:

DAILY AVERAGE/EXTREME TEMPERATURES

3

VALUATION

DIRNAVOCEANMET-SMOS

1. The first part of the document is a list of names and their corresponding dates. The names are listed in the first column, and the dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020.

2. The second part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Date". The table contains the following data:

Name	Date
John Doe	1/1/2020
Jane Smith	2/1/2020
Bob Johnson	3/1/2020

3. The third part of the document is a list of names and their corresponding dates. The names are listed in the first column, and the dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020.

4. The fourth part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Date". The table contains the following data:

Name	Date
John Doe	1/1/2020
Jane Smith	2/1/2020
Bob Johnson	3/1/2020

5. The fifth part of the document is a list of names and their corresponding dates. The names are listed in the first column, and the dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020.

6. The sixth part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Date". The table contains the following data:

Name	Date
John Doe	1/1/2020
Jane Smith	2/1/2020
Bob Johnson	3/1/2020

7. The seventh part of the document is a list of names and their corresponding dates. The names are listed in the first column, and the dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020.

8. The eighth part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Date". The table contains the following data:

Name	Date
John Doe	1/1/2020
Jane Smith	2/1/2020
Bob Johnson	3/1/2020

9. The ninth part of the document is a list of names and their corresponding dates. The names are listed in the first column, and the dates are listed in the second column. The names are: John Doe, Jane Smith, and Bob Johnson. The dates are: 1/1/2020, 2/1/2020, and 3/1/2020.

10. The tenth part of the document is a table with two columns. The first column is labeled "Name" and the second column is labeled "Date". The table contains the following data:

Name	Date
John Doe	1/1/2020
Jane Smith	2/1/2020
Bob Johnson	3/1/2020

SECRET

DAILY AVERAGE/EXTREME TEMPERATURES

3

DATE		TIME		TEMPERATURE		WIND		HUMIDITY		PRESSURE		VISIBILITY		CLOUDS		SEA		OTHER	
DAY	MONTH	HR	MIN	Avg	Ext	Dir	Spd	Rel	Abs	Bar	Alt	Dist	Dir	Base	Top	Dir	Height	Remarks	
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*ALSO ON FARTHER YEARS

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

UNITED STATES DEPARTMENT OF COMMERCE
NATIONAL OCEANOGRAPHIC ADMINISTRATION

3

STATION		DATE		TIME		WIND		WAVE		SEA		TEMPERATURE		HUMIDITY		PRESSURE		VISIBILITY		CLOUDS		REMARKS	
NO.	NAME	MO.	DAY	HR.	MIN.	DIR.	SPD.	HT.	PER.	HT.	PER.	AIR	SEA	WIND	REL.	BAR.	IN.	SM.	OKT.	OKT.	OKT.	REMARKS	
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WIND ON LAND ONLY

DIRNAVOCEANMET-SMOS

DAILY AVERAGE/EXTREME TEMPERATURES

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2006-2007 PAPER

DIRNA VOCE ANMET – SMOS

EXTREME VALUES

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EXTREME VALUES

EXTREME VALUES

100

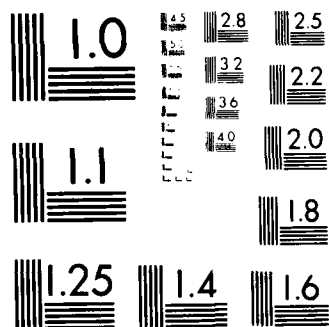
SUMMARY OF METEOROLOGICAL OBSERVATIONS SURFACE (SMOS)
CHINA LAKE CALIFORNIA(U) NAVAL OCEANOGRAPHY COMMAND
DETACHMENT ASHEVILLE NC AUG 84

UNCLASSIFIED

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MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

PSYCHROMETRIC SUMMARY

DATE: 11/1/51
MONTH: NOV
YEAR: 1951

STATION NAME: 1

STATION NAME: 1

STATION NAME: 1

Temp F	WET BULB TEMPERATURE DEPRESSION (F)																	TOTAL		TOTAL Wet Bulb	Dew Point								
	0	1-2	3-4	5-6	7-8	9-10	11	12	13	14	15	16	17	18	19	20	21	22	23			24	25	26	27	28	29	30	31
70																												70	70
71																												71	71
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100																												100	100

Element (X)	Σ X			Σ X	σ _x	No. Obs.	Mean No. of Hours with Temperature					Total
	Rel. Hum.	Dry Bulb	Wet Bulb				± 0 F	± 32 F	± 67 F	± 80 F	± 93 F	
Rel. Hum.												
Dry Bulb												
Wet Bulb												
Dew Point												

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

STATION NAME:
 MONTH:
 YEARS:
 HOURS (L.S.T.):

Temp F	WET BULB TEMPERATURE DEPRESSION (F)												TOTAL								
	0	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20	21-22	23-24	25-26	27-28	29-30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point
1																					4.7
1																					2.2
1																					2.2
1																					2.2
1																					1.4
1																					1.7
1																					1.2
1																					7
1																					4
1																					7
1																					1
1																					1536
1																					1536
1																					1536

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PSYCHROMETRIC SUMMARY

[illegible]

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PSYCHROMETRIC SUMMARY

1. **INTRODUCTION**
 2. **CONCLUSION**
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 213. **FOREWORD**
 214. **DEDICATION**
 215. **ACKNOWLEDGMENTS**
 216. **ABSTRACT**
 217. **KEYWORDS**
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 241. **DEDICATION**
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 244. **KEYWORDS**

ALL HOURS

Temp F	WET BULB TEMPERATURE DEPRESSION (°F)																															TOTAL				TOTAL					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B.	W.B.	Dry Bulb		Wet Bulb	Dew Point			
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PSYCHROMETRIC SUMMARY

DATE MONTH

YEAR HOURS TEST

Temp F	WET BULB TEMPERATURE DEPRESSION F																TOTAL																					
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	D.B. W.B.	Dry Bulb	Wet Bulb	Dew Point		
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PSYCHROMETRIC SUMMARY

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PSYCHROMETRIC SUMMARY

STATION NAME
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Temp F.	WET BULB TEMPERATURE DEPRESSION (F.)																															TOTAL		TOTAL			
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Element (X)	$\sum X^2$				$\sum X$				\bar{X}				σ_x				No. Obs.				Mean No. of Hours with Temperature				Total				Total								
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Dry Bulb																																					
Wet Bulb																																					
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PSYCHROMETRIC SUMMARY

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STATION NAME

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NAVWEASERVCOM

RELATIVE HUMIDITY

STATION NAME

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS):

[illegible]

RELATIVE HUMIDITY

3

STATION NAME

FORM 1

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
1		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
2		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
3		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
4		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
5		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
6		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
7		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
8		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
9		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
10		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
11		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
12		10.0	20.0	30.0	40.0	50.0	60.0	70.0	80.0	90.0	40.0	100
TOTALS		100.0	200.0	300.0	400.0	500.0	600.0	700.0	800.0	900.0	400.0	1477

RELATIVE HUMIDITY

STATION NAME:

2025

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUMBER OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
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RELATIVE HUMIDITY

STAT...% NAME:

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS.

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STAT : V NAME:

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	PERCENTAGE FREQUENCY OF RELATIVE HUMIDITY GREATER THAN									MEAN RELATIVE HUMIDITY	TOTAL NUMBER OBS.
		10%	20%	30%	40%	50%	60%	70%	80%	90%		
JAN	1	1.0	1.0	4.0	12.4	6.0	1.0				20.7	2
	2	1.0	3.0	3.0	2.0	1.0	1.0				11.0	2
FEB	1	7.0	11.0	7.0	1.0	1.0					13.1	3
	2	10.0	1.0	7.0	1.0	1.0					13.0	2
MAR	1	7.0	14.0	4.0	1.0						13.0	2
	2	1.0	7.0	1.0							20.0	2
TOTALS		11	31.7	15.0	16.5	10.0	1.0				20.7	14

RELATIVE HUMIDITY

STAT. NAME:

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

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CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
FROM HOURLY OBSERVATIONS

[illegible]

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE
(FROM HOURLY OBSERVATIONS)

[illegible]

RELATIVE HUMIDITY

CUMULATIVE PERCENTAGE FREQUENCY OF OCCURRENCE (FROM HOURLY OBSERVATIONS)

MONTH	HOURS LST	10%	20%	30%	40%	50%	60%	70%	80%	90%	MEAN RELATIVE HUMIDITY	TOTAL NO. OF OBS.
JAN	01	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	02	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	03	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	04	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	05	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	06	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	07	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	08	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	09	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	10	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	11	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	12	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	13	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	14	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	15	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	16	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	17	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	18	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	19	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	20	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	21	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	22	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	23	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	24	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	25	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	26	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	27	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	28	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	29	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	30	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
JAN	31	1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0
TOTALS		1.0	1.0	2.0	2.0	4.0	4.0	1.0	1.0	1.0	4.0	1.0

3 TEMPERATURE

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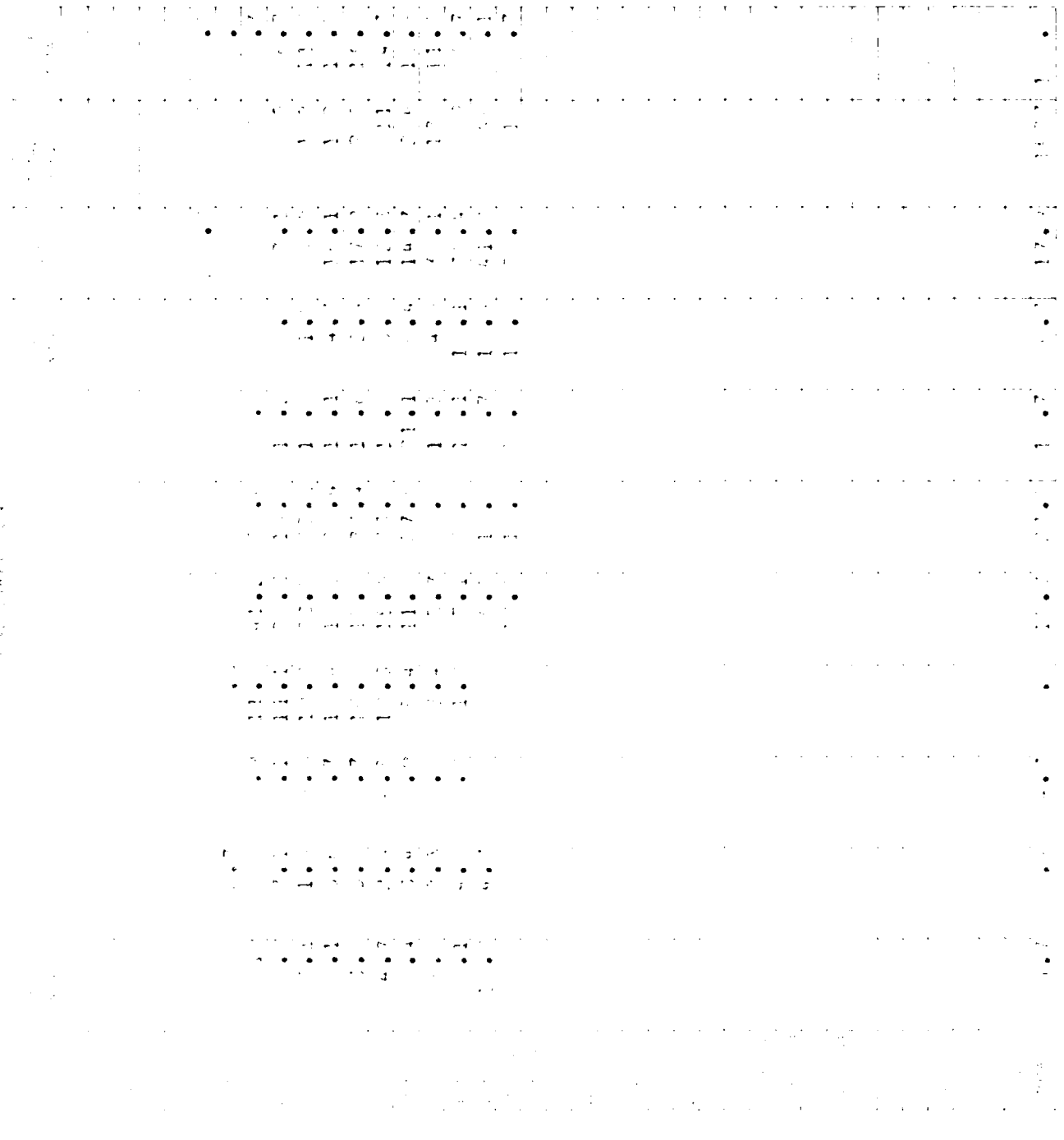
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185 | 186 | 187 | 188 | 189 | 190 | 191 | 192 | 193 | 194 | 195 | 196 | 197 | 198 | 199 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 | 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | 224 | 225 | 226 | 227 | 228 | 229 | 230 | 231 | 232 | 233 | 234 | 235 | 236 | 237 | 238 | 239 | 240 | 241 | 242 | 243 | 244 | 245 | 246 | 247 | 248 | 249 | 250 | 251 | 252 | 253 | 254 | 255 | 256 | 257 | 258 | 259 | 260 | 261 | 262 | 263 | 264 | 265 | 266 | 267 | 268 | 269 | 270 | 271 | 272 | 273 | 274 | 275 | 276 | 277 | 278 | 279 | 280 | 281 | 282 | 283 | 284 | 285 | 286 | 287 | 288 | 289 | 290 | 291 | 292 | 293 | 294 | 295 | 296 | 297 | 298 | 299 | 300 | 301 | 302 | 303 | 304 | 305 | 306 | 307 | 308 | 309 | 310 | 311 | 312 | 313 | 314 | 315 | 316 | 317 | 318 | 319 | 320 | 321 | 322 | 323 | 324 | 325 | 326 | 327 | 328 | 329 | 330 | 331 | 332 | 333 | 334 | 335 | 336 | 337 | 338 | 339 | 340 | 341 | 342 | 343 | 344 | 345 | 346 | 347 | 348 | 349 | 350 | 351 | 352 | 353 | 354 | 355 | 356 | 357 | 358 | 359 | 360 | 361 | 362 | 363 | 364 | 365 | 366 | 367 | 368 | 369 | 370 | 371 | 372 | 373 | 374 | 375 | 376 | 377 | 378 | 379 | 380 | 381 | 382 | 383 | 384 | 385 | 386 | 387 | 388 | 389 | 390 | 391 | 392 | 393 | 394 | 395 | 396 | 397 | 398 | 399 | 400 | 401 | 402 | 403 | 404 | 405 | 406 | 407 | 408 | 409 | 410 | 411 | 412 | 413 | 414 | 415 | 416 | 417 | 418 | 419 | 420 | 421 | 422 | 423 | 424 | 425 | 426 | 427 | 428 | 429 | 430 | 431 | 432 | 433 | 434 | 435 | 436 | 437 | 438 | 439 | 440 | 441 | 442 | 443 | 444 | 445 | 446 | 447 | 448 | 449 | 450 | 451 | 452 | 453 | 454 | 455 | 456 | 457 | 458 | 459 | 460 | 461 | 462 | 463 | 464 | 465 | 466 | 467 | 468 | 469 | 470 | 471 | 472 | 473 | 474 | 475 | 476 | 477 | 478 | 479 | 480 | 481 | 482 | 483 | 484 | 485 | 486 | 487 | 488 | 489 | 490 | 491 | 492 | 493 | 494 | 495 | 496 | 497 | 498 | 499 | 500 | 501 | 502 | 503 | 504 | 505 | 506 | 507 | 508 | 509 | 510 | 511 | 512 | 513 | 514 | 515 | 516 | 517 | 518 | 519 | 520 | 521 | 522 | 523 | 524 | 525 | 526 | 527 | 528 | 529 | 530 | 531 | 532 | 533 | 534 | 535 | 536 | 537 | 538 | 539 | 540 | 541 | 542 | 543 | 544 | 545 | 546 | 547 | 548 | 549 | 550 | 551 | 552 | 553 | 554 | 555 | 556 | 557 | 558 | 559 | 560 | 561 | 562 | 563 | 564 | 565 | 566 | 567 | 568 | 569 | 570 | 571 | 572 | 573 | 574 | 575 | 576 | 577 | 578 | 579 | 580 | 581 | 582 | 583 | 584 | 585 | 586 | 587 | 588 | 589 | 590 | 591 | 592 | 593 | 594 | 595 | 596 | 597 | 598 | 599 | 600 | 601 | 602 | 603 | 604 | 605 | 606 | 607 | 608 | 609 | 610 | 611 | 612 | 613 | 614 | 615 | 616 | 617 | 618 | 619 | 620 | 621 | 622 | 623 | 624 | 625 | 626 | 627 | 628 | 629 | 630 | 631 | 632 | 633 | 634 | 635 | 636 | 637 | 638 | 639 | 640 | 641 | 642 | 643 | 644 | 645 | 646 | 647 | 648 | 649 | 650 | 651 | 652 | 653 | 654 | 655 | 656 | 657 | 658 | 659 | 660 | 661 | 662 | 663 | 664 | 665 | 666 | 667 | 668 | 669 | 670 | 671 | 672 | 673 | 674 | 675 | 676 | 677 | 678 | 679 | 680 | 681 | 682 | 683 | 684 | 685 | 686 | 687 | 688 | 689 | 690 | 691 | 692 | 693 | 694 | 695 | 696 | 697 | 698 | 699 | 700 | 701 | 702 | 703 | 704 | 705 | 706 | 707 | 708 | 709 | 710 | 711 | 712 | 713 | 714 | 715 | 716 | 717 | 718 | 719 | 720 | 721 | 722 | 723 | 724 | 725 | 726 | 727 | 728 | 729 | 730 | 731 | 732 | 733 | 734 | 735 | 736 | 737 | 738 | 739 | 740 | 741 | 742 | 743 | 744 | 745 | 746 | 747 | 748 | 749 | 750 | 751 | 752 | 753 | 754 | 755 | 756 | 757 | 758 | 759 | 760 | 761 | 762 | 763 | 764 | 765 | 766 | 767 | 768 | 769 | 770 | 771 | 772 | 773 | 774 | 775 | 776 | 777 | 778 | 779 | 780 | 781 | 782 | 783 | 784 | 785 | 786 | 787 | 788 | 789 | 790 | 791 | 792 | 793 | 794 | 795 | 796 | 797 | 798 | 799 | 800 | 801 | 802 | 803 | 804 | 805 | 806 | 807 | 808 | 809 | 810 | 811 | 812 | 813 | 814 | 815 | 816 | 817 | 818 | 819 | 820 | 821 | 822 | 823 | 824 | 825 | 826 | 827 | 828 | 829 | 830 | 831 | 832 | 833 | 834 | 835 | 836 | 837 | 838 | 839 | 840 | 841 | 842 | 843 | 844 | 845 | 846 | 847 | 848 | 849 | 850 | 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1015 | 1016 | 1017 | 1018 | 1019 | 1020 | 1021 | 1022 | 1023 | 1024 | 1025 | 1026 | 1027 | 1028 | 1029 | 1030 | 1031 | 1032 | 1033 | 1034 | 1035 | 1036 | 1037 | 1038 | 1039 | 1040 | 1041 | 1042 | 1043 | 1044 | 1045 | 1046 | 1047 | 1048 | 1049 | 1050 | 1051 | 1052 | 1053 | 1054 | 1055 | 1056 | 1057 | 1058 | 1059 | 1060 | 1061 | 1062 | 1063 | 1064 | 1065 | 1066 | 1067 | 1068 | 1069 | 1070 | 1071 | 1072 | 1073 | 1074 | 1075 | 1076 | 1077 | 1078 | 1079 | 1080 | 1081 | 1082 | 1083 | 1084 | 1085 | 1086 | 1087 | 1088 | 1089 | 1090 | 1091 | 1092 | 1093 | 1094 | 1095 | 1096 | 1097 | 1098 | 1099 | 1100 | 1101 | 1102 | 1103 | 1104 | 1105 | 1106 | 1107 | 1108 | 1109 | 1110 | 1111 | 1112 | 1113 | 1114 | 1115 | 1116 | 1117 | 1118 | 1119 | 1120 | 1121 | 1122 | 1123 | 1124 | 1125 | 1126 | 1127 | 1128 | 1129 | 1130 | 1131 | 1132 | 1133 | 1134 | 1135 | 1136 | 1137 | 1138 | 1139 | 1140 | 1141 | 1142 | 1143 | 1144 | 1145 | 1146 | 1147 | 1148 | 1149 | 1150 | 1151 | 1152 | 1153 | 1154 | 1155 | 1156 | 1157 | 1158 | 1159 | 1160 | 1161 | 1162 | 1163 | 1164 | 1165 | 1166 | 1167 | 1168 | 1169 | 1170 | 1171 | 1172 | 1173 | 1174 | 1175 | 1176 | 1177 | 1178 | 1179 | 1180 | 1181 | 1182 | 1183 | 1184 | 1185 | 1186 | 1187 | 1188 | 1189 | 1190 | 1191 | 1192 | 1193 | 1194 | 1195 | 1196 | 1197 | 1198 | 1199 | 1200 | 1201 | 1202 | 1203 | 1204 | 1205 | 1206 | 1207 | 1208 | 1209 | 1210 | 1211 | 1212 | 1213 | 1214 | 1215 | 1216 | 1217 | 1218 | 1219 | 1220 | 1221 | 1222 | 1223 | 1224 | 1225 | 1226 | 1227 | 1228 | 1229 | 1230 | 1231 | 1232 | 1233 | 1234 | 1235 | 1236 | 1237 | 1238 | 1239 | 1240 | 1241 | 1242 | 1243 | 1244 | 1245 | 1246 | 1247 | 1248 | 1249 | 1250 | 1251 | 1252 | 1253 | 1254 | 1255 | 1256 | 1257 | 1258 | 1259 | 1260 | 1261 | 1262 | 1263 | 1264 | 1265 | 1266 | 1267 | 1268 | 1269 | 1270 | 1271 | 1272 | 1273 | 1274 | 1275 | 1276 | 1277 | 1278 | 1279 | 1280 | 1281 | 1282 | 1283 | 1284 | 1285 | 1286 | 1287 | 1288 | 1289 | 1290 | 1291 | 1292 | 1293 | 1294 | 1295 | 1296 | 1297 | 1298 | 1299 | 1300 | 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PERCENT FREQUENCY OF AIR TEMPERATURE VS WIND DIRECTION

WIND DIRECTION



PERCENTAGE FREQUENCY OF AIR TEMPERATURE

VS

WIND DIRECTION

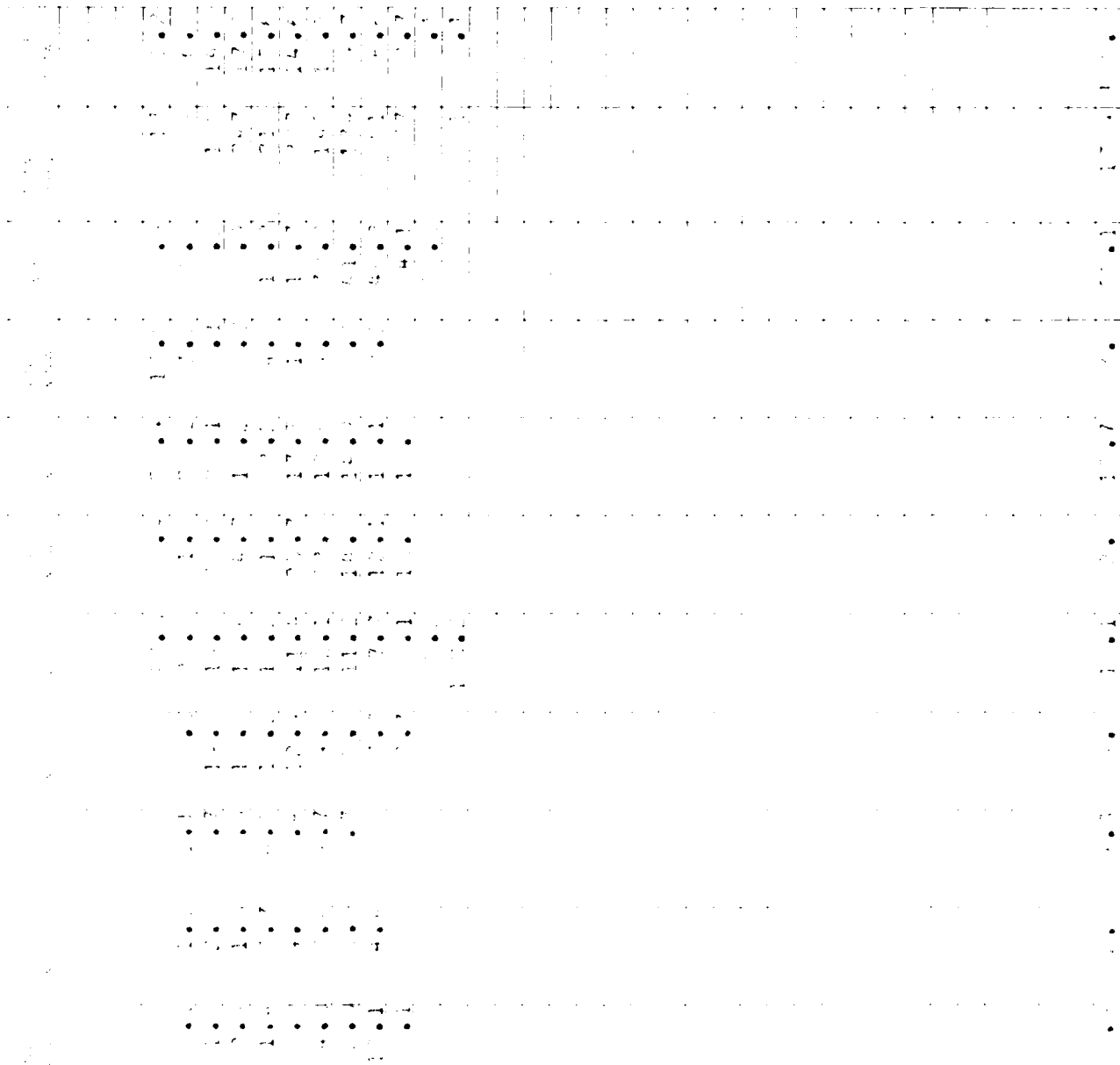
WIND DIRECTION

| WIND DIRECTION | 0-10 | 10-20 | 20-30 | 30-40 | 40-50 | 50-60 | 60-70 | 70-80 | 80-90 | 90-100 | TOTAL |
|----------------|------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|
| 0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 10 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 20 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 30 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 40 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 50 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 60 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 70 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 80 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 90 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| 100 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |
| TOTAL | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 | 1.0 |

TOTAL

PERCENTAGE FREQUENCY OF AIR TEMPERATURE
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WIND DIRECTION

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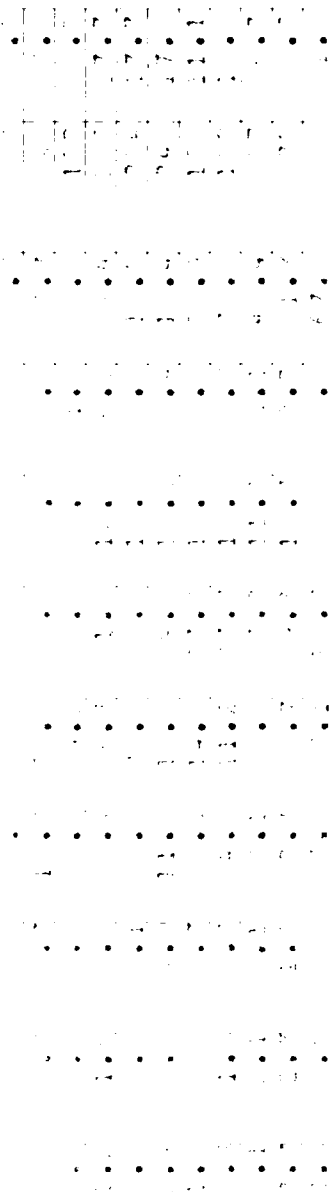
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TEMPERATURE FREQUENCY OF AIR TEMPERATURE
VS.
WIND DIRECTION

WIND DIRECTION



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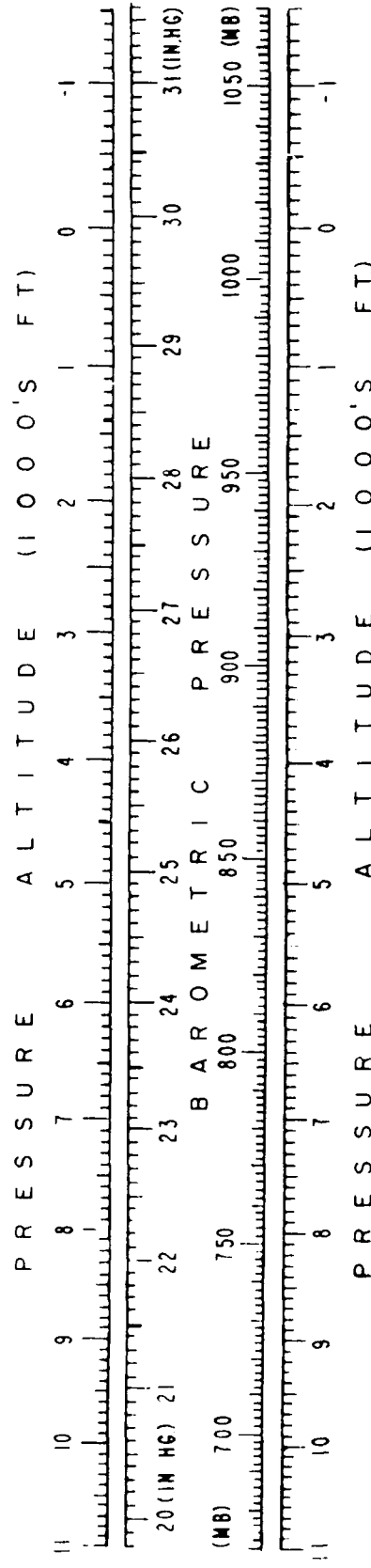
PART F

PRESSURE SUMMARY

Presented in this part are two tables giving the means, standard deviations, and total number of observations of station pressure and sea-level pressure by month and annual for the local hourly observations corresponding to the eight 3-hourly synoptic times GCT. The same computations are also provided at the bottom of the page for all hours combined. All years of data available are combined in both of these tables, although the overall period is limited to January 1946 through December 1963 because of changes in reporting practices before and after those dates.

1. Station pressure in inches of mercury.
2. Sea-level pressure in millibars.

Provided below is a scale to convert station pressure values in inches of mercury or millibars to pressure altitude in 1000's of feet. This scale is an enlarged model of the pressure altitude scale in the Smithsonian Meteorological Tables.



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END

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